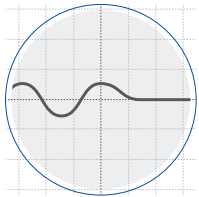


# 10 COMMON POWER PROBLEMS

that can harm your critical electronics and applications

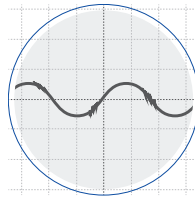


Which power problems are affecting your systems?



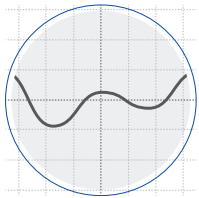
## AC BLACKOUT

A total loss of utility power occurring for more than 2 cycles.



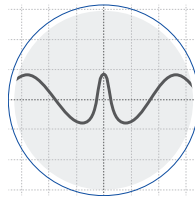
## NORMAL MODE NOISE

High frequency electrical waveform between line (L) and neutral (N) caused by RFI or EMI interference.



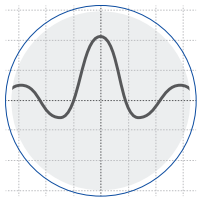
## POWER SAG

Short-term low voltage caused by starting inrush current of large equipment, utility switching, or a temporary overload.



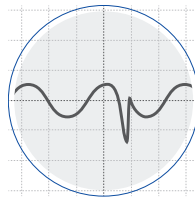
## FREQUENCY VARIATION

Frequency change from nominal 60Hz or 50Hz. Operation from engine generators can produce frequency variations.



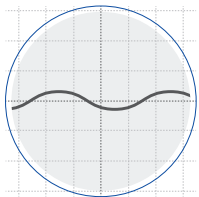
## VOLTAGE SURGE

Short-term high voltage above 110% of nominal for several cycles.



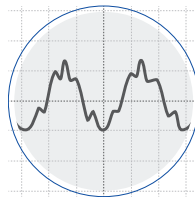
## SWITCHING TRANSIENT

Fast high voltage spike with very short duration time.



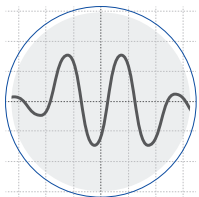
## BROWNOUT

Long-term reduced line voltage for an extended period of a few minutes to a few days.



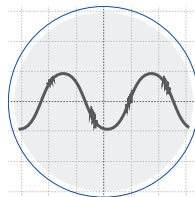
## HARMONIC DISTORTION

Distortion of the normal waveform generally caused by nonlinear loads such as rectifiers, switch mode power supplies, and variable frequency drives.



## OVERVOLTAGE

Extended periods of increased line voltage ranging from a few minutes to a few days.



## COMMON MODE NOISE

Electrical Interference that is measured between ground and either neutral (N) or line (L) of a typical AC power line.

# Find the right Xtreme Power UPS to protect your critical electronics

## STANDBY UPS

Standby UPS protect against 3 of the 10 most common power problems. This low cost UPS provides basic protection and will reduce equipment downtime. Standby UPS are most commonly used to protect single workstations, ATM/Kiosk, IP telephony, and POS terminals.

Xtreme Power Standby models: **A60, J60**



## LINE INTERACTIVE UPS

Line Interactive UPS protect against 5 of the 10 most common power problems. This midrange protection adds Automatic Voltage Regulation (AVR) feature to the Standby UPS topology. Line Interactive UPS are most commonly used to protect servers, small network systems, IP telephony, POS terminals, and POE equipment.

Xtreme Power Line Interactive models: **S70, P80, V80**



## ONLINE UPS

Online UPS, also known as double conversion technology, protect against 9 of the 10 most common power problems. This topology first converts AC utility power into DC power, then converts back into AC power. Online UPS are most commonly used to protect mission critical applications including critical servers, phone systems, medical devices, and equipment requiring long battery runtimes.

Xtreme Power Online models: **E91, P91, P91 5-10kVA, T91, M90U, M90S, X90**



## ISOLATED ONLINE UPS

Isolated Online UPS, also known as Power Conditioned Online UPS or Laboratory Grade UPS, protect against all 10 of the common power problems. This premium technology adds galvanic isolation transformer to the online UPS topology providing protection from common mode noise. Isolated Online UPS are used to provide the cleanest power in difficult applications such as industrial environments, laboratories, retail, and any installation with grounding or noise issues.

Xtreme Power Isolated Online models: **TX91**



	AC Blackout	Power Sag	Voltage Surge	Brownout	Overvoltage	Normal Mode Noise	Frequency Variation	Switching Transient	Harmonic Distortion	Common Mode Noise
<b>Standby UPS</b> A60, J60										
<b>Line Interactive UPS</b> S70, V80, P80										
<b>Online UPS</b> E91, P91 (Li) 1-3kVA, P91 5-10kVA T91, M90, M90S, X90										
<b>Isolated Online UPS</b> TX91										

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

XPC EMEA / Rotterdam, NL / emea@xpcc.com

www.xpcc.com

©2022 Xtreme Power Conversion Corporation. All Rights Reserved.

For more information, visit [www.xpcc.com](http://www.xpcc.com)

# XTREME POWER CONVERSION J60

Lithium UPS // 120VAC or 230VAC

For more information, visit [www.xpcc.com/j60](http://www.xpcc.com/j60)



## Slim and light weight J60 Lithium UPS provides power outage protection for your critical electronics

Xtreme Power J60 provides the benefits of lithium battery technology in a slim form factor UPS. J60 is ideal for providing continuous power where a conventional UPS will not fit.

Lithium battery technology allows J60 to operate continuously at up to 40°C (104°F) without reduction in battery life.

J60's compact design is excellent for providing protection to automation systems, video walls, PoE Switches, programmable logic controller (PLC), kiosks, industrial computers, and point-of-sale (POS) equipment.

For a slim PDU, reference the J40 surge PDU at [www.xpcc.com/j40](http://www.xpcc.com/j40)

### PRODUCT SNAPSHOT

- › Available models: 350VA/200W, 600VA/360W
- › Available 120VAC UL or 230VAC CE models
- › Power outage protection from 6 minutes to hours
- › 5 years electronics, 5 years battery warranty (USA and Canada)
- › UL, CE, RoHS, TAA compliant

### FEATURES

**Long Life Battery**—LiFePO4 batteries provide protection for up to 8-10 years or 2000 discharges

**Web/SNMP Card** —optional external card provides monitoring of critical UPS parameters, alarms and status (600VA only)

**Output Power Control** — optional Web/SNMP card provides remote on/off control of J60 output power to reboot loads (600VA only)

**Environmental Monitoring**— optional Environmental Monitoring Device provides temperature and humidity monitoring (600VA with Web/SNMP only)

**Highest Efficiency**—J60 operates at up to 98% efficiency saving utility costs and reducing heat output

**Redundant BMS**— 600VA models includes dual redundant Battery Management Systems insuring cell voltage balancing, current sharing, and protection from over-charge/discharge. 350VA models include single BMS

**Mounting brackets**—allows J60 to mount on walls, under counters, or inside enclosures

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/j60](http://www.xpcc.com/j60)

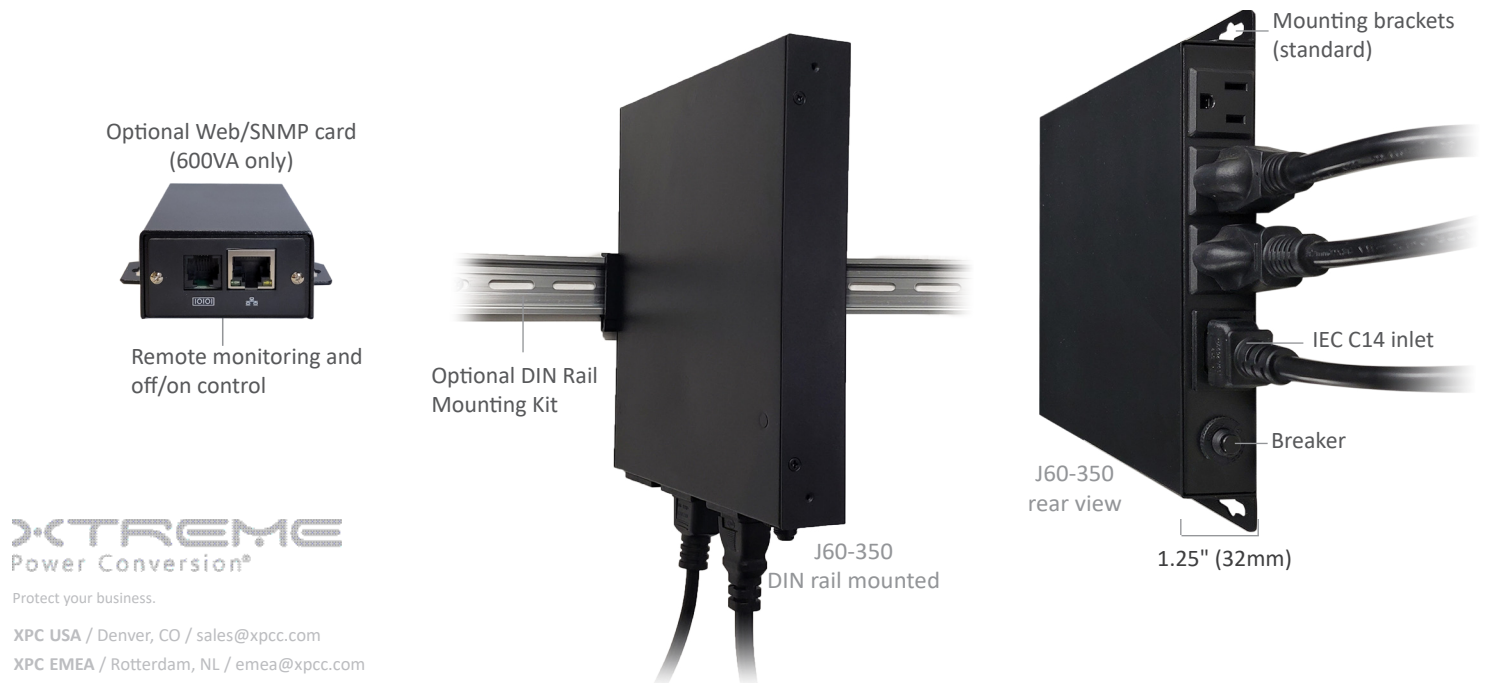
MODEL NUMBER		J60-350	J60i-350	J60-600	J60i-600
CAPACITY	Power rating	350VA (200W)	350VA (200W)	600VA (360W)	600VA (360W)
INPUT	Voltage	120VAC	230VAC	120VAC	230VAC
	Frequency	50/60Hz			
OUTPUT	Voltage	120VAC	230VAC	120VAC	230VAC
	Waveform	Sine wave (normal), simulated sine wave (battery mode)			
	Frequency	50/60Hz			
	Surge suppression	312 joules			
	Transfer time	2-6 ms (typical)			
BATTERY	Battery type	Lithium Iron Phosphate (LiFePo4)			
	Battery quantity and size	(8) LiFePO4 18650 cells, 2400mAh		(16) LiFePO4 18650 cells, 4400mAh	
PHYSICAL	Dimensions (W x D x H)	6.9 x 8.5 x 1.25 in* (175 x 216 x 32 mm)		7.3 x 10.8 x 1.6 in (185 x 275 x 40 mm)	
	Weight	3.4 lbs (1.5 kg)		4.7 lbs (2.1 kg)	
	Line cord	Detachable 5–15P to C13	C14 inlet	Detachable 5–15P to C13	C14 inlet
	Receptacles	(3) 5–15R	(2) IEC C13	(3) 5–15R	(2) IEC C13
ENVIRONMENT	Temperature	32–104°F (0–40°C)			
	Humidity	0–90%			
	Altitude	11,500 ft above sea level			
COMMUNICATIONS INTERFACE	Standard communications	USB Interface including cable and software		DB9 port provides communication and power for optional webcard	
	Web/SNMP card option	N/A		External Web/SNMP card providing UPS monitoring and receptacle On/Off control	
	Environmental monitoring device	N/A		Measures temperature and humidity (requires Web/SNMP card option)	
APPROVALS		UL-1778, cTUVus, FCC, RoHSCE, RoHS, TAA compliant (120V) CE, RoHS, TAA compliant (230V)			
WARRANTY		5 years electronics, 5 years battery warranty (USA & Canada)**			
AVAILABLE OPTIONS		DIN rail mounting kit, Web/SNMP card (600VA), Environmental Monitoring Device (600VA), power cord with offset/right angle 5-15P plug (120V units only)			
INCLUDED IN BOX		ViewPower CD, user manual, mounting brackets, 5–15P to C13 line cord (120VAC units only)			

\*Wall mount brackets add 15mm to each side. \*\*Warranty outside of USA & Canada is 3 years.

## BATTERY RUNTIMES

System Load (watts)	20	40	80	120	160	200	240	280	320	360
J60/J60i-350	72	35	17	11	9	7	N/A	N/A	N/A	N/A
J60/J60i-600	161	79	35	23	17	14	11	9	8	6

(Runtimes are shown in minutes and will vary based on battery age and site conditions.)



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2022 Xtreme Power Conversion Corporation. All Rights Reserved. J60.02U (Rev 6/22/22)

# XTREME POWER CONVERSION J60C

Lithium UPS // 120VAC or 230VAC

For more information, visit [www.xpcc.com/j60c](http://www.xpcc.com/j60c)



## Power protection with short-depth J60C Lithium-ion UPS

Xtreme Power J60C provides the benefits of lithium-ion battery technology in a 8.5" depth 1U UPS. Ideal for short depth racks and provides extra space for cable management.

J60C Lithium-ion batteries last 3x longer than typical lead acid batteries. Up to 10 years life lowers the cost of ownership by minimizing UPS maintenance.

Remote UPS management and control with optional Web/SNMP card. LCD display adds local UPS status and metering.

J60C provides protection to: Small Edge, Retail, Banks, Healthcare and Education. J60C supports IDF/MDF closets, back office and network equipment.

For higher capacity and longer runtime Lithium-ion UPS, reference [www.xpcc.com/xtreme-power-lithium-ups/](http://www.xpcc.com/xtreme-power-lithium-ups/)

### PRODUCT SNAPSHOT

- › 600VA 1U Rack Mount UPS
- › 120VAC UL and 230VAC CE models
- › 6 Minutes Full Load Runtime
- › 5 year warranty (USA and Canada)
- › Tower, wall, and rack mount configurations available
- › UL, CE, RoHS, TAA compliant

### FEATURES

**Short depth UPS** —8.5" depth suitable for shallow racks and other space constrained applications

**Long Life Battery**—LiFePO4 batteries provide protection for up to 10 years or 2000 discharges

**Smart LCD display**—vital monitoring and precise information from the front panel

**Output Power Control** — optional Web/SNMP card provides remote on/off control of J60C output power to reboot loads

**UPS Management and Control** —optional Web/SNMP card

**Environmental Monitoring**— optional Environmental Monitoring Device provides temperature and humidity monitoring (requires Web/SNMP)

**Highest Efficiency**—J60C operates at up to 98% efficiency saving utility costs and reducing heat output

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/J60C](http://www.xpcc.com/J60C)

MODEL NUMBER		J60C-600	J60Ci-600
CAPACITY	Power rating	600VA (360W)	600VA (360W)
INPUT	Voltage	120VAC	230VAC
	Frequency	50/60Hz	
OUTPUT	Voltage	120VAC	230VAC
	Waveform	Sine wave (normal), simulated sine wave (battery mode)	
	Frequency	50/60Hz	
	Power Conditioning	Noise Filtering and Surge Suppression	
	Transfer time	2-6 ms (typical)	
BATTERY	Battery type	Lithium Iron Phosphate (LiFePo4)	
	Battery quantity and size	(16) LiFePO4 18650 cells, 4400mAh	
PHYSICAL	Dimensions (W x D x H)	17.2 x 8.5 x 1.7 in (438 x 215 x 44 mm)	
	Weight	7.8 lbs (3.5kgs)	
	Line cord	Detachable 5–15P to C13	C14 inlet
	Receptacles	(5) 5–15R (4 battery back up + 1 surge only)	(5) IEC C13 (4 battery back up + 1 surge only)
ENVIRONMENT	Temperature	32–104°F (0–40°C)	
	Humidity	0–90%	
	Altitude	11,500 ft above sea level	
COMMUNICATIONS INTERFACE	Standard communications	USB Interface including cable and software	
	Web/SNMP card option	Optional Web/SNMP card providing UPS monitoring and receptacle On/Off control	
	Environmental monitoring device	Measures temperature and humidity (requires Web/SNMP card option)	
APPROVALS (pending)		UL-1778, cTUVus, FCC, RoHSCE, RoHS, TAA compliant (120V) CE, RoHS, TAA compliant (230V)	
WARRANTY		5 years electronics, 5 years battery warranty (USA & Canada)*	
AVAILABLE OPTIONS		Web/SNMP card, Environmental Monitoring Device	
INCLUDED IN BOX		ViewPower CD, user manual, 5–15P to C13 line cord (120VAC unit only)	

\*Warranty outside of USA & Canada is 3 years.

## BATTERY RUNTIMES

System Load (watts)	20	40	80	120	160	200	240	280	320	360
J60C/J60Ci-600	161	79	35	23	17	14	11	9	8	6

(Runtimes are shown in minutes and will vary based on battery age and site conditions.)



J60C(i)-600 front view

LCD display provides local metering and UPS status

8.5" Depth – suitable for short depth racks

UPS Network Management Card



J60C-600 rear view

Lithium-ion batteries provide 3X longer life than VRLA



J60Ci-600 rear view

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

[www.xpcc.com](http://www.xpcc.com)

©2022 Xtreme Power Conversion Corporation. All Rights Reserved. J60C.02U (Rev 8/11/22)

# XTREME POWER CONVERSION A60

Standby UPS // 120VAC

For more information, visit [www.xpcc.com/a60](http://www.xpcc.com/a60)



## Affordable, reliable power protection for valuable home and small business electronics

Power and protect your critical electronics and maintain your internet connection during power outages. Xtreme Power A60 UPS keep you connected by providing battery backup so you can continue phone calls, checking emails, and maintain home automation and security systems.

In addition, the A60-850 includes a USB charging port to charge and power your mobile devices during power outages.

For Lithium Ion UPS reference the J60 at [www.xpcc.com/j60](http://www.xpcc.com/j60)

### PRODUCT SNAPSHOT

- › Available models: 550VA, 850VA
- › Compact size and lightweight design
- › Floor, desk, or wall mount
- › UL, cUL, Energy Star, TAA Compliant
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Compact design**—allows for horizontal or vertical placement; keyholes enable this lightweight UPS to be conveniently mounted on a wall

**Surge Protection** —guard your electronics against lightning, surges and spikes

**Auto restart**—after full battery discharge, the A60 automatically restarts when utility power returns

**USB Communications**—USB port enables plug and play communications between servers, desktops, and the UPS

**Touch LCD** — provides vital monitoring and precise information (850VA)

**USB Charging Port** — USB port allow you to charge your mobile devices during power outage

**\$25,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

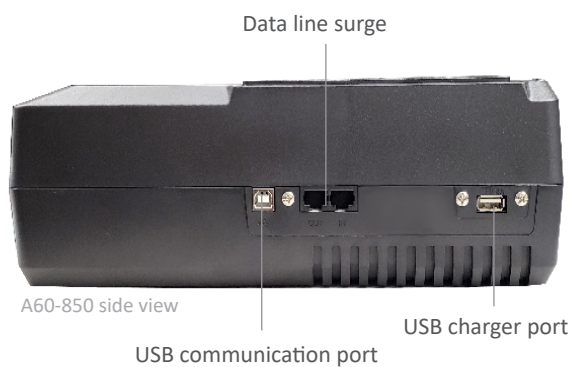
For more information, visit [www.xpcc.com/a60](http://www.xpcc.com/a60)

MODEL NUMBER		A60-550	A60-850
CAPACITY	Power rating	550VA (330W)	850VA (500W)
INPUT	Voltage	110/120VAC	
	Frequency	50/60Hz auto-sensing	
OUTPUT	Voltage	110/120VAC	
	Waveform	Simulated sine wave	
	Frequency	50Hz $\pm$ 1Hz or 60Hz	
	Transfer time	2–6ms	
BATTERY	Battery type	Sealed, maintenance free lead acid	
	Battery quantity and size	(1) 12V 5AH	(1) 12V 6AH
	Recharge	8 hours to 90% capacity	
PHYSICAL	UPS dimensions (W x D x H)	6.2 x 12 x 3.7 in	
	UPS weight	6 lbs	7.2 lbs
	Line cord	6 ft, 5-15P	
	Receptacles	(10) NEMA 5-15R receptacles (5 battery back up + 5 surge only)	
	USB charging port	N/A	USB A-type 5V, 2.4A
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)	
	Humidity	0–90%	
	Altitude	11,500 ft above sea level	
INDICATORS & ALARMS	Display	3 LED's	Touch LCD
	Data Line Protection	N/A	RJ45
APPROVALS		Certified to UL-1778, cTUVus, RoHS, TAA	
WARRANTY		3 years electronics, 3 years battery (USA and Canada)	
COMMUNICATIONS INTERFACE		USB	
INCLUDED IN BOX		USB Cable and User Manual	

## BATTERY RUNTIMES

System Load	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
A60-550	60	27	15	10	8	6	4.5	3	2.2	<1
A60-850	45	20	12	7.3	6	4	2.5	2	1	<1

(Runtimes are shown in minutes and will vary based on battery age and site conditions.)



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

www.xpcc.com

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. XST.01U (Rev 3/22/21)

# XTREME POWER CONVERSION S71

Line Interactive UPS // 120VAC

For more information, visit [www.xpcc.com/S71](http://www.xpcc.com/S71)



## Equip your office with reliable battery backup and protection from power outages

Power quality disturbances including voltage fluctuations, over voltage, under voltage, and voltage blackouts occur unexpectedly. In the event of any of these common power problems, the S71 UPS activates to protect all connected critical loads—ranging from your computer to your business telephone system.

The S71 streamlines installation to just a few simple steps, allowing backup power protection right out of the box. The smart LCD screen offers real-time monitoring of UPS parameters while shutdown and monitoring software enables UPS and remote device control over your network.

### PRODUCT SNAPSHOT

- › Available models: 700VA, 1000VA, 1500VA
- › Touch LCD display
- › Automatic voltage regulation (AVR)
- › UL and cUL listed, RoHS, TAA compliant
- › Primary applications: home or small office, desktop computers, routers, and switches
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Ease of use**—plug-and-play functionality means the UPS is ready to start backing up your equipment right out of the box

**Auto restart**—after full battery discharge, the S71 automatically restarts when utility power returns

**Touch LCD** — provides vital monitoring and precise information

**Sleek design**—modern and compact, perfect for use in any home office or small office setting

**Longer battery life**—wide operating voltage range means less use of batteries, making them last longer

**Surge suppression**—465 Joule rating

**\$25,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/S71](http://www.xpcc.com/S71)

MODEL NUMBER		S71-700	S71-1000	S71-1500
CAPACITY	Power rating	700VA (420W)	1000VA (600W)	1500VA (900W)
INPUT	Voltage	120 VAC		
	Frequency	50/60 Hz (Auto-sensing)		
OUTPUT	Voltage	120VAC		
	Waveform	Sine wave (normal), simulated sine wave (battery mode)		
	Frequency	60Hz $\pm$ 1Hz		
	Transfer time	4 ms (typical)		
BATTERY	Battery type	Sealed, maintenance-free lead acid		
	Battery quantity and size	(1) 12V 9AH	(2) 12V 7AH	(2) 12V 9AH
	Recharge	4–6 hours to 90% capacity		
PHYSICAL	UPS dimensions (W x D x H)	3.9 x 11.8 x 5.6 in	5.1 x 12.6 x 7.1 in	
	UPS weight	11.2 lbs	18 lbs	23 lbs
	Line cord	6ft, C13 to 5–15P*	6 ft, 5–15P	6 ft, 5–15P
	Receptacles	(4) 5–15R	(6) 5–15R	(6) 5–15R
	Cooling	Convection cooled		Fan cooled
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)		
	Humidity	0–90%		
	Altitude	11,500 ft above sea level		
INDICATORS & ALARMS	LCD display	AC mode, battery mode, load/battery level, input/output voltage, overload fault, low battery		
APPROVALS		UL, cUL, RoHS, TAA		
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)		
COMMUNICATIONS INTERFACE		USB HID		
INCLUDED IN BOX		Shutdown and monitoring software, USB cable, user manual		

\*Removable input cord connects to C14 inlet

## BATTERY RUNTIMES

System Load	250VA	350VA	500VA	700VA	1000VA	1500VA
S71-700	15	6	2	<1	-	-
S71-1000	22	12	6	3	1	-
S71-1500	30	21	11	6	3	1.5

(Runtimes are shown in minutes and will vary based on battery age and site conditions.)



# XTREME POWER CONVERSION V80

Value Series Pure Sine Wave Line Interactive UPS // 120V

For more information, visit [www.xpcc.com/V80](http://www.xpcc.com/V80)



## Value series line interactive power protection for servers and network equipment

V80 is a pure sine wave line interactive UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

V80 units have the highest efficiency ratings available, providing utility cost savings at all load levels. V80 design provides flexible mounting including tower, wall and rack. V80 models combine high performance with value pricing.

For line interactive models with additional features, reference the P80 at [www.xpcc.com/P80](http://www.xpcc.com/P80)

### PRODUCT SNAPSHOT

- › Available models: 700VA, 1000VA, 1500VA, 2000VA
- › Pure sine wave output
- › Easy to replace battery design
- › Tower, wall, and rack mount configurations available
- › UL, cUL, RoHS
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Ease of use**—plug-and-play functionality means the UPS is ready to start backing up your equipment right out of the box

**Auto restart**—after full battery discharge, the V80 automatically restarts when utility power returns

**96% efficient operation**—high efficiency ECO mode lowers energy consumption

**Maintenance bypass**—an optional XBDM bypass module enables the V80 to be serviced or replaced without interruption of power to critical loads

**Easy to Replace Battery**—replace without interrupting the critical load

**Smart LCD display**—vital monitoring and precise information from the front panel

**Web/SNMP Card**—optional card provides monitoring of critical UPS parameters, alarms and status

**\$25,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/v80](http://www.xpcc.com/v80)

MODEL NUMBER		V80-700	V80-1000	V80-1500	V80-2000
CAPACITY	Power rating	700VA (420W)	1000VA (600W)	1500VA (900W)	2000VA (1200W)
INPUT	Voltage nominal	120VAC			
	Voltage range	82-148VAC			
	Frequency	50/60Hz auto-sensing			
OUTPUT	Voltage	120VAC			
	Waveform	Pure sine wave			
	Transfer time (typical)	2–6ms			
	Efficiency	Up to 96% ECO mode, 93% buck and boost mode			
	Harmonic distortion	2% @ 100% linear load; 5% @ 100% non-linear load			
BATTERY	Battery type	Sealed, maintenance-free lead acid			
	Battery quantity and size	(1) 12V 9AH	(2) 12V 7AH	(2) 12V 9AH	(2) 12V 9AH
	Charging current	1, 3 and 6A selectable (6A default)			
	Typical recharge	4 hours to 90%			
PHYSICAL	Dimensions (W x D x H)	17.2" x 16.1" x 3.5"			
	Weight	24 lbs	27.3 lbs	29.3 lbs	31.3 lbs
	Line cord (detachable)	6 ft, C13 to 5–15P			5ft, 5-20P to C19
	Receptacles	(8) NEMA 5–15R			
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)			
	Audible noise	< 40dBA		< 45dBA	
	Altitude	11,500 ft above sea level			
APPROVALS		UL, cUL, RoHS			
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)			
INCLUDED IN BOX		Front mount rack brackets, line cord, tower pedestals, user manual, USB cable, Power Monitor software			
AVAILABLE OPTIONS		5 year extended warranty, bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit, wall mount bracket			

## BATTERY RUNTIMES

Percentage load:	25%	50%	75%	100%
V80-700	25	10	3.4	2.3
V80-1000	29	12	5.5	2.7
V80-1500	23	9.2	2.1	1.6
V80-2000	14	6	1.8	1

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2021 Xtreme Power Conversion Corporation. All Rights Reserved. V80.01U (Rev 1/20/21)

# XTREME POWER CONVERSION V80XR

Value Series Pure Sine Wave Line Interactive UPS // 120V

For more information, visit [www.xpcc.com/v80xr](http://www.xpcc.com/v80xr)



## Value series line interactive power protection with extended runtimes

V80XR is a pure sine wave line interactive UPS for applications requiring extended runtimes and the fastest battery recharge. Up to four internal battery strings provide up to 2 hours of runtime at partial load.

V80XR units have the highest efficiency ratings available, providing utility cost savings at all load levels. V80XR design provides flexible mounting including tower, wall and rack. V80XR models combine high performance with value pricing.

For lithium models, reference the V80Li at [www.xpcc.com/V80li](http://www.xpcc.com/V80li)

### PRODUCT SNAPSHOT

- › Available models: 700VA, 1000VA, 1500VA, 2000VA
- › Pure sine wave output
- › Easy to replace battery design
- › Tower, wall, and rack mount configurations available
- › UL, cUL, RoHS, TAA Compliant
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Smart LCD display**—vital monitoring and precise information from the front panel

**Web/SNMP Card** —optional card provides monitoring of critical UPS parameters, alarms and status

**96% efficient operation**—high efficiency ECO mode lowers energy consumption

**Extended runtimes**—up to four internal battery strings provide up to 2 hours at partial load

**Maintenance bypass**—an optional XBDM bypass module enables the V80XR to be serviced or replaced without interruption of power to critical loads

**Auto restart**—after full battery discharge, the V80XR automatically restarts when utility power returns

**Powerful Battery Charger**—provides up to 6 amps of charging current for quick battery recharge

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/v80xr](http://www.xpcc.com/v80xr)

MODEL NUMBER		V80-700XR		V80-1000XR		V80-1500XR		V80-2000XR	
CAPACITY	Power rating	700VA (420W)		1000VA (600W)		1500VA (900W)		2000VA (1200W)	
INPUT	Voltage nominal	120VAC							
	Voltage range	82-148VAC							
	Frequency	50/60Hz auto-sensing							
OUTPUT	Voltage	120VAC							
	Waveform	Pure sine wave							
	Transfer time (typical)	2–6ms							
	Efficiency	Up to 96% ECO mode, 93% buck and boost mode							
	Harmonic distortion	2% @ 100% linear load; 5% @ 100% non-linear load							
BATTERY	Battery type	Sealed, maintenance-free lead acid 12V 9AH							
	Internal battery strings	XR1, XR2, XR3, XR4		XR1, XR2		XR1, XR2		XR1, XR2	
	Charging current	1, 3 and 6A selectable (6A default)							
	Quick recharge	4 hours to 90%							
PHYSICAL	Dimensions (W x D x H)	17.2" x 16.1" x 3.5"							
	Weight (lbs)	25.5, 31, 37, 43 lbs		31.3, 43 lbs		32.3, 44.5 lbs		34.3, 46.3 lbs	
	Line cord (detachable)	5ft, 5-15P to C13						5ft, 5-20P to C19	
	Receptacles	(8) NEMA 5–15R							
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)							
	Audible noise	< 40dBA				< 45dBA			
	Altitude	11,500 ft above sea level							
APPROVALS		UL, cUL, RoHS, TAA Compliant							
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)							
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)							
INCLUDED IN BOX		Front mount rack brackets, line cord, tower pedestals, user manual, USB cable, Power Monitor software							
AVAILABLE OPTIONS		5 year extended warranty, bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit, wall mount bracket							

## BATTERY RUNTIMES

Battery Strings:	1 string (XR1)				2 strings (XR2)				3 strings (XR3)				4 strings (XR4)			
Percentage load:	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
V80-700XR	31	13	6	4.3	70	29	17	13	114	49	28	21	153	73	41	22
V80-1000XR	47	20	12	6.0	105	45	26	16	-	-	-	-	-	-	-	-
V80-1500XR	28	12	6	3.8	63	27	15	11	-	-	-	-	-	-	-	-
V80-2000XR	19	7	3.5	1.7	43	18	10	4.4	-	-	-	-	-	-	-	-

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2021 Xtreme Power Conversion Corporation. All Rights Reserved. V80TAA.01U (Rev 1/20/21)

# XTREME POWER CONVERSION V80Li

Lithium-ion Pure Sine Wave Line Interactive // 120V

For more information, visit [www.xpcc.com/v80li](http://www.xpcc.com/v80li)



## Lithium-ion batteries provide longest life and reduced cost of ownership

Lithium-ion batteries provide 2X the battery life, better performance at higher temperatures and lower total cost of ownership compared to typical UPS with lead-acid batteries. Longer battery life helps eliminate the cost of battery replacement, labor, shipping and recycling.

V80Li UPS includes redundant Battery Management Systems (BMS) insuring cell voltage balancing, current sharing and protection for over-charge and over-discharge.

V80Li UPS is ideal for point-of-sale, routers, switches, servers and network devices.

For the world's smallest Lithium-ion UPS, reference the J60 at [www.xpcc.com/j60](http://www.xpcc.com/j60)

### PRODUCT SNAPSHOT

- › Available models: 700VA, 1000VA, 1500VA
- › Easy to replace battery design
- › Pure sine wave output
- › Tower, wall, and rack mount configurations available
- › UL, cUL, RoHS, TAA Compliant
- › 5 years electronics, 5 years battery warranty (USA and Canada)

### FEATURES

**Lithium-ion Batteries**—LiFePO4 batteries last up to 10 years or 2000 discharge cycles

**Redundant Protection**—redundant Battery Management Systems (BMS) insure cell balancing, current sharing, and protection from over-charge/discharge

**Fast Recharge**—recharge batteries in about 60 minutes after a full discharge

**96% efficient operation**—high efficiency ECO mode lowers energy consumption

**Easy to Replace Battery**—replace without interrupting the critical load

**Web/SNMP Card**—optional card provides monitoring of critical UPS parameters, alarms and status

**Auto restart**—after full battery discharge, the V80Li automatically restarts when utility power returns

**High Temperature Operation**—V80Li operates continuously at up to 113°F (45°C)

**\$25,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

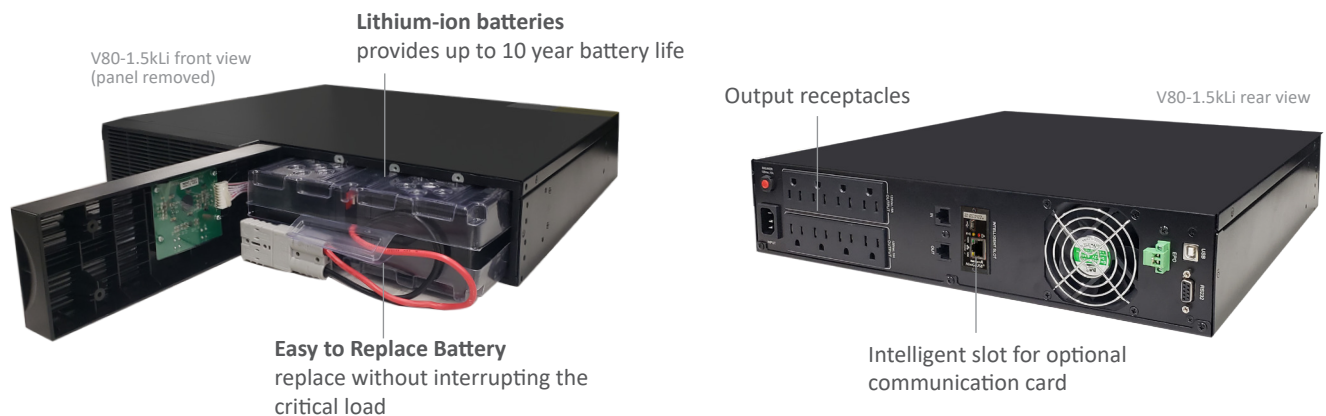
For more information, visit [www.xpcc.com/v80li](http://www.xpcc.com/v80li)

MODEL NUMBER		V80-0.7kLi	V80-1kLi	V80-1.5kLi
CAPACITY	Power rating	700VA (420W)	1000VA (600W)	1500VA (900W)
INPUT	Voltage nominal	120VAC		
	Voltage range	82-148VAC		
	Frequency	50/60Hz auto-sensing		
OUTPUT	Voltage	120VAC		
	Waveform	Pure sine wave		
	Transfer time (typical)	2-6ms		
	Efficiency	Up to 96% ECO mode, 93% buck and boost mode		
	Harmonic distortion	2% @ 100% linear load; 5% @ 100% non-linear load		
BATTERY	Battery type	Lithium Iron Phosphate (LiFePO4) 12.8V 6AH		
	Internal Battery Strings	Li1, Li2, Li3, Li4	Li1, Li2	Li1, Li2
	Charging current	1, 3 and 6A selectable (6A default)		
	Recharge time to 95%	1 hour per string		
PHYSICAL	Dimensions (W x D x H)	17.2" x 16.1" x 3.5"		
	Weight	21.2, 23.4, 25.6, 27.8 lbs	24.2, 28.6 lbs	26, 30.4 lbs
	Line cord (detachable)	5ft, 5-15P to C13		
	Receptacles	(8) NEMA 5-15R		
ENVIRONMENT	Operating temperature	32-113°F (0-45°C)		
	Audible noise	< 40dBA		< 45dBA
	Altitude	11,500 ft above sea level		
APPROVALS		UL, cUL, RoHS, FCC Class A, battery packs comply to UL1973 and UN38.3 for battery transportation, TAA compliant		
WARRANTY		5 years electronics, 5 years battery warranty (USA and Canada)		
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)		
INCLUDED IN BOX		Front mount rack brackets, line cord, tower pedestals, user manual, USB cable, Power Monitor software		
AVAILABLE OPTIONS		Bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit, wall mount bracket		

## BATTERY RUNTIMES

	1 string (Li1)		2 string (Li2)		3 string (Li3)		4 string (Li4)	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%
V80-0.7kLi	16	<3	36	16	56	18	72	22
V80-1kLi	25	7	49	20	-	-	-	-
V80-1.5kLi	11	<3	32	11	-	-	-	-

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2021 Xtreme Power Conversion Corporation. All Rights Reserved. V80.01U (Rev 1/20/21)

# XTREME POWER CONVERSION V80HT

High Temperature Line Interactive UPS // 120V

For more information, visit [www.xpcc.com/V80ht](http://www.xpcc.com/V80ht)



## Power protection for extreme temperatures environments

V80HT is a pure sine wave line interactive UPS engineered for high temperature critical power applications. Xtreme temperature batteries are rated for up to 12 years at 77°F (25°C) or 5 years at 113°F (45°C).

V80HT units have the highest efficiency ratings available, providing utility cost savings at all load levels. V80HT design provides flexible mounting including tower, wall and rack. V80HT models combine high performance with value pricing.

For standard temperature models, reference the V80 at [www.xpcc.com/v80](http://www.xpcc.com/v80)

### PRODUCT SNAPSHOT

- › Available models: 700VA, 1000VA, 1500VA, 2000VA
- › Pure sine wave output
- › Easy to replace battery design
- › Tower, wall, and rack mount configurations available
- › UL, cUL, RoHS, TAA Compliant
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**113°F Operation**—V80HT allows higher operating temperature up to 113°F (45°C) without derating.

**Auto restart**—after full battery discharge, the V80HT automatically restarts when utility power returns

**Maintenance bypass**—an optional XBDM bypass module enables the V80HT to be serviced or replaced without interruption of power to critical loads

**Extended runtimes**—up to four internal battery strings provide up to 2 hours at partial load

**Web/SNMP Card**—optional card provides monitoring of critical UPS parameters, alarms and status

**Smart LCD display**—vital monitoring and precise information from the front panel

**\$25,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/V80ht](http://www.xpcc.com/V80ht)

MODEL NUMBER		V80-700HT	V80-1000HT	V80-1500HT	V80-2000HT
CAPACITY	Power rating	700VA (420W)	1000VA (600W)	1500VA (900W)	2000VA (1200W)
INPUT	Voltage nominal	120VAC			
	Voltage range	82-148VAC			
	Frequency	50/60Hz auto-sensing			
OUTPUT	Voltage	120VAC			
	Waveform	Pure sine wave			
	Transfer time (typical)	2–6ms			
	Efficiency	Up to 96% ECO mode, 93% buck and boost mode			
	Harmonic distortion	2% @ 100% linear load; 5% @ 100% non-linear load			
BATTERY	Battery type	12-year rated, maintenance-free lead acid 12V 8.5AH			
	Internal Battery Strings	HT1, HT2, HT3, HT4	HT1, HT2	HT1, HT2	HT1, HT2
	Charging current	1, 3 and 6A selectable (6A default)			
	Quick recharge	4 hours to 90%			
PHYSICAL	Dimensions (W x D x H)	17.2" x 16.1" x 3.5"			
	Weight (HT1 version)	25.5, 31, 37, 43 lbs	31.3, 43 lbs	32.3, 44.5 lbs	34.3, 46.3 lbs
	Line cord (detachable)	5ft, 5-15P to C13			5ft, 5-20P to C19
	Receptacles	(8) NEMA 5–15R			
ENVIRONMENT	Operating temperature	32-113°F (0-45°C)			
	Audible noise	< 40dBA		< 45dBA	
	Altitude	11,500 ft above sea level			
APPROVALS		UL, cUL, RoHS, TAA Compliant			
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)			
INCLUDED IN BOX		Front mount rack brackets, line cord, tower pedestals, user manual, USB cable, Power Monitor software			
AVAILABLE OPTIONS		5 year extended warranty, bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit, wall mount bracket			

## BATTERY RUNTIMES

Percentage load:	1 string (HT1)				2 strings (HT2)				3 strings (HT3)				4 strings (HT4)			
Percentage load:	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
V80-700HT	30	10	5	3.6	63	29	15	10	109	45	28	21	153	66	38	22
V80-1000HT	43	18	9	4.9	99	41	26	14	-	-	-	-	-	-	-	-
V80-1500HT	28	9	5	3.2	58	26	13	9	-	-	-	-	-	-	-	-
V80-2000HT	17	6	3.1	1.1	40	16	10	4.4	-	-	-	-	-	-	-	-

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



**XTREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2021 Xtreme Power Conversion Corporation. All Rights Reserved. V80 HT.01U (Rev 1/21/21)

# XTREME POWER CONVERSION P80

Pure Sine Wave Line Interactive UPS // 120VAC

For more information, visit [www.xpcc.com/p80](http://www.xpcc.com/p80)



## Advanced line interactive power protection for servers and network equipment

The P80 is a pure sine wave line interactive UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

P80 units are the highest efficiency available, providing utility cost savings at all load levels. P80 design provides flexible mounting including tower, rack, or optional wall mounting.

For true online double conversion models, reference the P90 at [www.xpcc.com/p90](http://www.xpcc.com/p90)

### PRODUCT SNAPSHOT

- › Available models: P80-800, 1100, 1500, 2000, 2200, 3000(V2)
- › Pure sine wave output
- › Tower, wall, 2-post and 4-post rack mounting configurations available
- › UL, cUL, RoHS
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Auto restart**—after full battery discharge, the P80 automatically restarts when utility power returns

**99% efficient operation**—high efficiency ECO mode lowers energy consumption

**Smart LCD display**—vital monitoring and precise information from the front panel

**Programmable receptacle group**—maximize uptime for critical loads and equipment by shedding less critical loads

**Temperature compensation**—temperature compensated charging to prolong battery life and help reduce replacement costs

**Hot swappable battery**—easy to replace without interrupting the load

**Extended battery runtimes**—optional matching battery modules available with P80-1500, 2000, 2200, and 3000(V2) models for extended runtimes

**Maintenance bypass**—an optional XBDM bypass module enables the P80 to be replaced or serviced without interruption of power to critical loads (excluding P80-3000 model)

**\$50,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/p80](http://www.xpcc.com/p80)

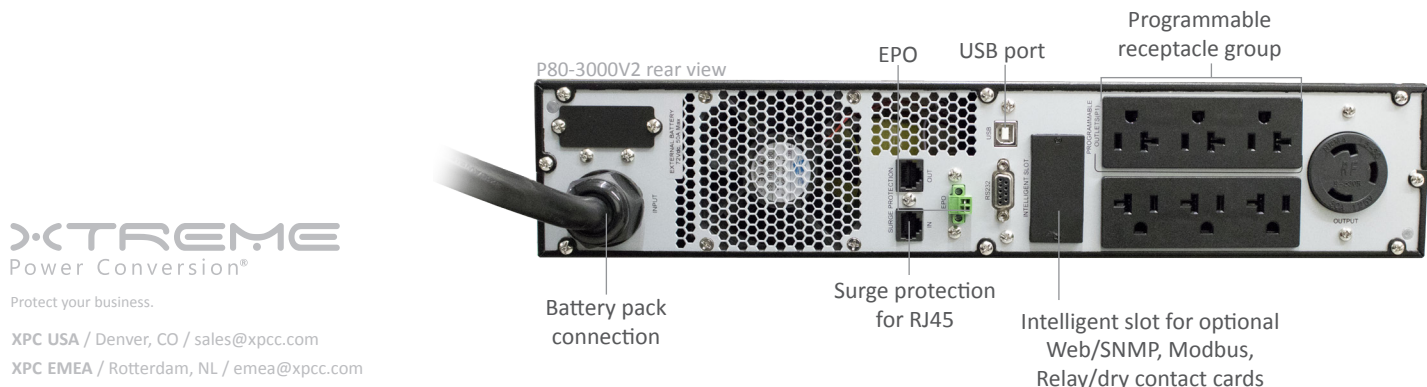
MODEL NUMBER		P80-800	P80-1100	P80-1500	P80-2000	P80-2200	P80-3000(V2)
CAPACITY	Power rating	800VA (720W)	1100VA (990W)	1500VA (1350W)	2000VA (1800W)	2200VA (2000W)	3000VA (2700W)
INPUT	Voltage nominal	120VAC					
	Voltage range	-32% to +27% without use of battery					
	Frequency	50/60Hz auto-sensing					
OUTPUT	Voltage	120VAC nominal (110/115/127 selectable)					
	Waveform	Pure sine wave					
	Transfer time (typical)	2–6ms					
	Efficiency	Up to 99% ECO mode, 95% buck and boost mode					
	Harmonic distortion	2% @ 100% linear load; 5% @ 100% non-linear load					
BATTERY	Battery type	Sealed, maintenance-free lead acid					
	Battery quantity/size	(2) 12V 7AH	(2) 12V 9AH	(4) 12V 7AH	(4) 12V 9AH	(6) 12V 7AH	(6) 12V 9AH
	Charging current	1.5A max					
	Typical recharge	4 hours to 90%					
PHYSICAL	Dimensions (W x D x H)	17.2 x 15.1 x 3.5 in		17.2 x 18.9 x 3.5 in		17.2 x 23.6 x 3.5 in	
	Weight	29.3 lbs	30.5 lbs	44.7 lbs	47.4 lbs	61.7 lbs	67.1 lbs
	Line cord	6 ft, 5–15P	6 ft, 5–15P	6 ft, 5–15P	6 ft, 5–20P	6 ft, 5–20P	6 ft, L5–30P
	Receptacles	(8) NEMA 5–15R			(8) NEMA 5–15/20R		(8) 5–15/20R or (6) 5–15/20R + L5-30R (V2)
OPTIONAL BATTERY PACKS	Model number	N/A		P90-BP48		P90-BP72	
	Dimensions (W x D x H)	N/A		17.2 x 18.9 x 3.5 in		17.2 x 23.6 x 3.5 in	
	Weight	N/A		74.6 lbs		104.4 lbs	
	Battery	N/A		(8) 12V 9AH / 48V		(12) 12V 9AH / 72V	
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)					
	Audible noise	< 45dBA					
	Altitude	11,500 ft above sea level					
APPROVALS		UL, cUL, RoHS					
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)					
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)					
INCLUDED IN BOX		Software CD, horizontal brackets, tower pedestals, user manual					
AVAILABLE OPTIONS		5 year extended warranty, bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit, wall mount bracket					

Rack depth is front bracket to unit panel. Add 1" for depth including front bezel.

## BATTERY RUNTIMES

Percentage load:	Internal batteries				(1) Battery pack				(2) Battery packs			
	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
P80-800	29	11	6	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P80-1100	26	11	5	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P80-1500	31	12	6	4	124	53	31	22	216	102	61	42
P80-2000	30	12	6	4	119	50	30	20	211	97	58	40
P80-2200	32	12	6	4	125	54	32	22	219	104	62	43
P80-3000(V2)	30	12	6	4	119	50	30	20	211	97	58	40

Maximum of two battery packs per P80-1500, P80-2000, P80-2200, or P80-3000(V2). Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2018 Xtreme Power Conversion Corporation. All Rights Reserved. P80.01U (Rev 3/28/18)

# XTREME POWER CONVERSION P80g

Pure Sine Wave Line Interactive UPS // 208VAC or 208/120VAC

For more information, visit [www.xpcc.com/p80g](http://www.xpcc.com/p80g)



## Up to 4.5kW of efficient reliable power in just 2U rack space

The P80g is a pure sine wave line interactive UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

P80g units provide the highest efficiency available, with utility cost savings at all load levels. P80g flexible design accommodates tower or rack mounting.

For true online double conversion models, reference the P90 at [www.xpcc.com/p90](http://www.xpcc.com/p90)

### PRODUCT SNAPSHOT

- › Available models: 3000VA, 5000VA
- › 208VAC, 230VAC, 240/120VAC, and 208/120VAC
- › Tower, 2-post and 4-post rack mounting configurations available
- › Up to 5kVA of power, with internal batteries, all in a 2U package
- › CE, RoHS, TAA compliant
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Auto restart**—after full battery discharge, the P80g automatically restarts when utility power returns

**99% efficient operation**—high efficiency ECO mode lowers energy consumption

**Smart LCD display**—vital monitoring and precise information from the front panel

**Programmable receptacle group**—maximize uptime for critical loads and equipment by shedding less critical loads

**Temperature compensation**—temperature compensated charging to prolong battery life and reduce overall costs

**Hot swappable battery**—easy to replace without interrupting the load

**Extended battery run-times**—optional matching battery modules available for extended runtimes

**Maintenance bypass**—an optional XBDM bypass module enables the P80g-3000 to be replaced or serviced without interruption of power to critical loads

**\$50,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/p80g](http://www.xpcc.com/p80g)

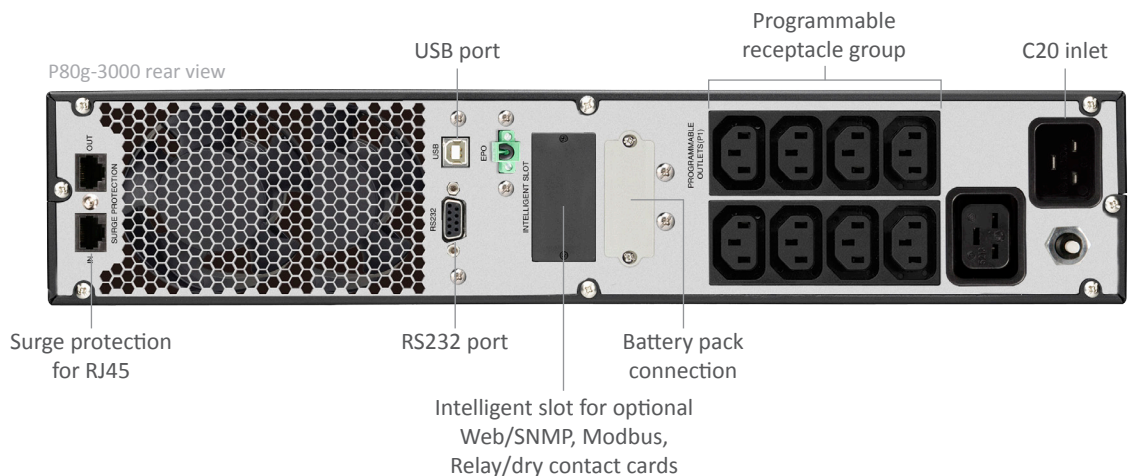
MODEL NUMBER		P80g-3000	P80g-5000	P80g-5KTB
CAPACITY	Power rating	3000VA (2700W)	5000VA (4500W)	5000VA (4500W)
INPUT	Voltage nominal	208/220/230/240VAC		208VAC or 240VAC
	Voltage range	162–290VAC		
	Frequency	50/60Hz auto-sensing		60Hz
OUTPUT	Voltage	208/220/230/240VAC		208/120VAC or 240/120VAC
	Waveform	Pure sine wave		
	Transfer time (typical)	2–6ms		
	Efficiency	Up to 99% ECO mode, 95% buck and boost mode		
	Harmonic distortion	2% @ 100% linear load; 5% @ 100% non-linear load		
BATTERY	Battery type	Sealed, maintenance-free lead acid		
	Battery quantity and size	(6) 12V 9AH	(6) 12V 580W at 5 min	
	Charging current	1.5A max		
	Typical recharge	4 hours to 90%		
PHYSICAL	Dimensions (W x D x H)	17.2 x 23.6 x 3.5 in (2U)		17.2 x 23.6 x 7.0 in (4U)
	Weight	61.9 lbs	78.5 lbs	224 lbs
	Line cord	8 ft, detachable C19 to L6–20P	6 ft, L6–30P	6 ft, L6–30P
	Receptacles	(1) C19 + (8) C13	(1) L6–30R + (4) C19	(2) L6–30R + (2) L6–20R + (12) 5–15/20R
	Receptacle options	L6–30R, L6–20R, L6–15R, 6–15/20R		
OPTIONAL BATTERY PACKS	Model number	P90-BP72	P80-BP72X	
	Dimensions (W x D x H)	17.2 x 23.6 x 3.5 in	17.2 x 23.6 x 3.5 in	
	Weight	104.4 lbs	110.4 lbs	
	Battery	(12) 12V 9AH / 72V	(12) 12V 580W at 5 min / 72V	
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)		
	Audible noise	< 45dBA		
	Altitude	11,500 ft above sea level		
APPROVALS		CE, RoHS, TAA compliant		
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)		
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)		
INCLUDED IN BOX		Software CD, horizontal brackets, tower pedestals, user manual		
AVAILABLE OPTIONS		5 year extended warranty, bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit		

Rack depth is front bracket to unit panel. Add 1" for depth including front bezel.

## BATTERY RUNTIMES

	Internal batteries				(1) Battery pack				(2) Battery packs			
	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
P80g-3000	13	8	5	3	56	34	24	20	107	66	47	38
P80g-5000	10	5	3	2	38	24	18	14	71	45	33	27
P80g-5KTB	10	5	3	2	38	24	18	14	71	45	33	27

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2016 Xtreme Power Conversion Corporation. All Rights Reserved. P80g.01U (Rev 2/01/18)

# XTREME POWER CONVERSION P91 1-3kVA

Lead Acid Battery // Online UPS // 120VAC

For more information, visit [www.xpcc.com/p91\\_1-3](http://www.xpcc.com/p91_1-3)



## Premium Power Protection for Mission Critical Applications

The Xtreme Power P91 UPS is an online double conversion UPS solution which offers power conditioning and outage protection in a compact and flexible rack/tower form factor.

With near unity power factor operation (2U units), the Xtreme Power P91 provides maximum usable power to your equipment. Xtreme Power protects your business with a standard three year or optional five year product warranty.

The P91 UPS provides scalable battery capacity when extended protection is required. The powerful charger can provide up to 8 amps of current to quickly recharge up to 7 matching battery packs.

For 230V online UPS models, visit [www.xpcc.com/p91g\\_1-3](http://www.xpcc.com/p91g_1-3)

**XTREME**  
Power Conversion®  
Protect your business.

### PRODUCT SNAPSHOT

- › Available models: 1000VA(1U/2U), 1500VA, 2000VA, 3000VA
- › Tower, wall, 2-post, and 4-post rack mounting configurations
- › Individual switchable receptacles (1U)
- › Hot swappable battery design
- › UL, cUL, RoHS, FCC A, FCC B, TAA compliant (UPS only)
- › \$50,000 load protection policy
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**High output power factor**—P91 provides near unity output power factor rating (2U units)

**Switchable receptacles**—reboot loads remotely with 2 switchable receptacles (1U only)

**Charging current**—1/2/4/6/8A, adjustable from LCD display. Optimize charging for most battery solutions (2U units only)

**Maintenance bypass**—an optional XBDM bypass module enables the P91 to be replaced or serviced without interruption of power to critical loads

**Fast Recharge**—up to 95% in just 3 hours (2U unit)

**Multiple communications capability**—RS-232, USB, and optional Web/SNMP, Modbus, Relay/dry contact cards

**Efficient operation**—up to 98% ECO mode efficiency lowers energy consumption

**Programmable receptacles**—remote on/off control (2U only)

**Extended battery run-times**—optional matching battery modules available with 1500VA, 2000VA, and 3000VA models for extended runtimes

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/p91\\_1-3](http://www.xpcc.com/p91_1-3)

MODEL NUMBER		P91c-1000	P91-1000	P91-1500	P91-2000	P91-3000
CAPACITY	Power rating	1000VA (800W)	1000VA (1000W)	1500VA (1450W)	2000VA (1930W)	3000VA (2880W)
INPUT	Voltage/frequency	55–150VAC* / 50/60Hz auto-sensing				
OUTPUT	Voltage	120VAC	120VAC nominal (100/110/115/127 selectable)***			
	Waveform	Pure sine wave, 1U: <=3% THD (linear load), <=5% THD (non-linear load); 2U: <=2% THD (linear load), <=4 THD (non-linear load)				
	Frequency	50/60Hz ± 0.3Hz	50/60Hz ± 0.1Hz			
	Efficiency	Up to 98%				
	Overload capacity	1U online mode: > 105% & ≤ 130% for 2 min; > 130% & ≤200% for 10 sec; >200% for 250 ms 2U online mode: > 110% & ≤ 130% for 5 min; > 130% & ≤140% for 30 sec; >140% for 1.5 sec				
BATTERY	Battery chemistry	Sealed, maintenance-free lead acid				
	Battery size	(4) 6V 290W	(2) 12V 9AH	(3) 12V 9AH	(4) 12V 9AH	(6) 12V 9AH
	Typical recharge / charger	< 9 hours to 90%	< 3 hours to 95% with 2A charger current			
	Charging current	1A	2A default, Max 8A Adjustable			
PHYSICAL	Dimensions (W x D x H)**	17.2 x 17.8 x 1.7 in	17.2 x 15.1 x 3.5 in		17.2 x 19 x 3.5 in	17.2 x 23.8 x 3.5 in
	Weight	28 lbs	25.5 lbs	34.2 lbs	43 lbs	60.6 lbs
	Line cord	C14 inlet, 5ft 5-15P to C13 line cord	6 ft, 5–15P		6 ft, 5–20P	6 ft, L5–30P
	Receptacles	(3) NEMA 5–15R	(8) NEMA 5-15R		(8) NEMA 5–15/20R	L5–30R+(6)5–15/20R
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)				
	Altitude	11,500 ft above sea level				
APPROVALS		UL, cUL, RoHS, FCC Class B (1000 (2U), 1500VA), FCC Class A (1000 (1U), 2000, 3000VA), TAA compliant (UPS only)				
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)				
COMMUNICATIONS INTERFACE		RS-232(2U), USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)				
INCLUDED IN BOX		ViewPower software,front brackets, tower pedestals, user manual				
AVAILABLE OPTIONS		Bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit, wall mount bracket (2U units)				

\*Depending on load level. \*\*Rack depth is front bracket to unit panel. Add 1" for depth including front bezel. \*\*\*Capacities are based on highest selectable voltage. Some models derate at lower voltages

## BATTERY RUNTIMES

	Internal bat- teries		External Battery Packs													
			1		2		3		4		5		6		7	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
P91c-1000	20	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P91-1000	6	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P91-1500 (BP36)	10	3	42	17	84	33	120	51	157	72	199	93	244	112	289	128
P91-1500 (BP36E)	10	3	84	33	157	72	244	112	339	146	N/A	N/A	N/A	N/A	N/A	N/A
P91-2000 (BP48)	10	3	42	17	84	33	121	51	157	72	200	93	244	112	290	128
P91-3000 (BP72)	10	3	42	17	84	33	121	52	158	73	201	94	246	112	292	129

Maximum of seven battery packs per P91-1500, P91-2000, or P91-3000 (excluding BP36E). Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.

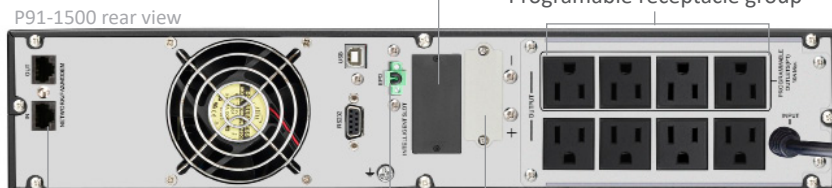
Individual switchable receptacles



P91c-1000 rear view

Intelligent slot for optional communication card

Programmable receptacle group



Surge protection for RJ45

EPO  
External battery connector

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. P911-3.01U (Rev 4/6/20)

# XTREME POWER CONVERSION P91 Li 1.5-3kVA

Lithium-Ion // Online UPS // 120VAC



## High performance online UPS with up to 10 year battery lifespan

The P91 lithium-ion UPS combines game-changing lithium-ion batteries with the advanced power protection of online double conversion technology.

Lithium Iron Phosphate (LiFePO4) batteries provides battery life of up to 10 years, eliminating the battery maintenance and refresh needs of UPS with lead-acid batteries. When compared to lead acid batteries, lithium-ion batteries provide more than twice the service life, higher temperature tolerance, longer internal runtimes, and faster recharge.

P91 online double conversion technology provides the cleanest power in the most challenging conditions including edge computing, point of sale, and light industrial.

For P91 1-3kVA lead acid UPS, reference the P91 [www.xpcc.com/p91\\_1-3/](http://www.xpcc.com/p91_1-3/)

### PRODUCT SNAPSHOT

- › Available models: 1500VA/1350W, 2000VA/1800W, 3000VA/2700W
- › Up to 10 year battery life
- › Online double conversion technology
- › Tower, wall, 2-post, and 4-post rack mounting configurations
- › UL, cUL, RoHS, FCC A, UN38.3 for battery transportation
- › Hot swappable internal lithium-ion battery pack
- › \$50,000 load protection policy

### FEATURES

**6 Year Full Warranty** — industry leading coverage for both lithium batteries and UPS electronics.

**Online Double Conversion** — most robust protection of mission-critical and light industrial applications

**Longer runtimes** — Internal runtimes up to 5 times longer than lead-acid UPS

**Longer lifespan** — Up to 2000 full discharge cycles. Up to 10 times more than lead-acid

**Quick Recharge** — 90 minutes to 90% with powerful 8 amp charger

**Lower Weight** — 25% less than typical lead acid UPS

**Battery Management System** — provides over voltage, over current and over temperature protection

**Maintenance bypass** — optional XBDM bypass module enables the P91 to be replaced or serviced without interruption of power

# MODEL SELECTION GUIDE

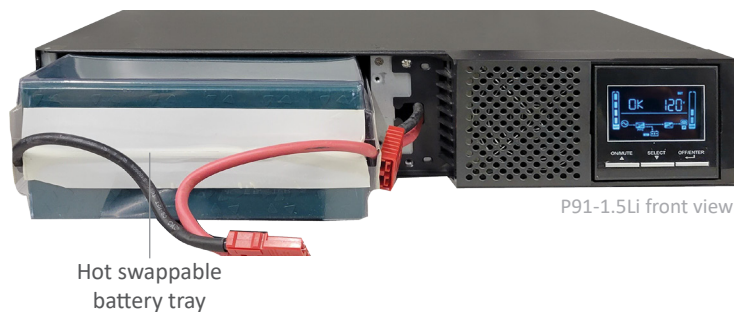
MODEL NUMBER		P91-1.5kLi	P91-2kLi	P91-3kLi
CAPACITY	Power rating	1500VA (1350W)	2000VA (1800W)	3000VA (2700W)
INPUT	Voltage/frequency	55–150VAC* / 50/60Hz auto-sensing		
OUTPUT	Voltage	100**/110/115/120/127 VAC selectable		
	Waveform	Pure sine wave: <=2% THD (linear load), <=4% THD (non-linear load)		
	Frequency	50/60Hz ± 0.1Hz		
	Efficiency	Up to 98% efficiency		
	Overload capacity	Online mode: 110% & ≤ 130% for 5 min; > 130% & ≤140% for 30 sec; >140% for 1.5 sec		
BATTERY	Cell type	LFP26650 2600 mAh		
	Cell configuration	15S2P	15S2P x2	24S1P x 3
	Charger voltage	52.5VDC		84VDC
	Charger current	2/4/6/8A (4A default), adjustable through LCD		
	Recharge time	1.5 hours to 90% charge		
PHYSICAL	Dimensions (W x D x H)***	17.2 x 15.1 x 3.5	17.2 x 19 x 3.5	17.2 x 23.8 x 3.5
	Weight (lbs)	25.6	33.5	45.2
	Line cord	6 ft, 5–15P	6 ft, 5–20P	6 ft, L5–30P
	Receptacles	(8) NEMA 5-15R	(8) NEMA 5-15/20R	L5-30R+(6)5-15/20R
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)		
	Altitude	11,500 ft above sea level		
APPROVALS		UL, cUL, RoHS, FCC Class A, battery packs comply to UL1973, UN38.3 for battery transportation		
WARRANTY		6 years electronics, 6 years battery warranty (USA and Canada)		
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)		
INCLUDED IN BOX		ViewPower software, horizontal brackets, tower pedestals, user manual		
AVAILABLE OPTIONS		Bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit, wall mount bracket		

\*Depending on load level. \*\*Derate capacity to 80% when the output voltage is adjusted to 100VAC. \*\*\*Rack depth is front bracket to unit panel. Add 1" for depth including front bezel.

## BATTERY RUNTIMES

Percentage load:	Internal batteries									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
P91-1.5kLi	111	54	34	25	19	16	13	11	9	8
P91-2kLi	163	79	51	38	30	24	21	18	16	14
P91-3kLi	127	62	40	29	23	19	16	14	12	11

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

www.xpcc.com

©2021 Xtreme Power Conversion Corporation. All Rights Reserved. P911-3.01U (Rev 2/10/20)



# XTREME POWER CONVERSION P91g 1-3kVA

Lead Acid Battery // Online UPS // 208/230VAC

For more information, visit [www.xpcc.com/p91g\\_1-3](http://www.xpcc.com/p91g_1-3)



## Premium Power Protection for Mission Critical Applications

The Xtreme Power P91g UPS is an online double conversion UPS solution which offers power conditioning and outage protection in a compact and flexible rack/tower form factor.

With unity power factor operation (2U units), the Xtreme Power P91g provides maximum usable power to your equipment. Xtreme Power protects your business with a standard, three-year or optional five year product warranty.

The P91g UPS provides scalable battery capacity when extended protection is required. The powerful charger can provide up to 12 amps of current to quickly recharge up to 8 matching battery packs.

For 120V online UPS models, visit [www.xpcc.com/p91\\_1-3](http://www.xpcc.com/p91_1-3)

### PRODUCT SNAPSHOT

- › Available models: 1000VA, 1500VA, 2000VA, 3000VA
- › Tower, wall, 2-post, and 4-post rack mounting configurations
- › Individual switchable receptacles (1U)
- › Hot swappable battery design
- › CE, RoHS, TAA compliant (UPS only)
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**High output power factor**—P91g provides unity output power factor rating (2U units)

**Switchable receptacles** — reboot loads remotely with 2 switchable receptacles (1U only)

**Charging current**—1/2/4/6/8/12A, adjustable from LCD display. Optimize charging for most battery solutions (2U units only)

**Maintenance bypass**—an optional XBDM bypass module enables the P91g to be replaced or serviced without interruption of power to critical loads

**Fast Recharge**—up to 95% in just 3 hours (2U units)

**Multiple communications capability**—RS-232 (2U only), USB, and optional Web/SNMP, Modbus, Relay/dry contact cards

**Efficient operation**—up to 98% ECO mode efficiency lowers energy consumption

**Extended battery run-times**—optional matching battery modules available with 1500VA, 2000VA, and 3000VA models for extended runtimes

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/p91g\\_1-3](http://www.xpcc.com/p91g_1-3)

MODEL NUMBER		P91gc-1000	P91g-1500	P91g-2000	P91g-3000
CAPACITY	Power rating	1000VA (800W)	1500VA (1500W)	2000VA (2000W)	3000VA (3000W)
INPUT	Voltage/frequency	208/220/230/240VAC* / 50/60Hz auto-sensing			
OUTPUT	Voltage	230VAC	230VAC nominal (200/208/220/230/240VAC selectable)***		
	Waveform	Pure sine wave, 1U: <=3% THD (linear load), <=5% THD (non-linear load); 2U: <=2% THD (linear load), <=4 THD (non-linear load)			
	Frequency	50/60Hz ± 0.3Hz	50/60Hz ± 0.1Hz		
	Efficiency	Up to 98%			
	Overload capacity	1U online mode: > 105% & ≤ 130% for 2 min; > 130% & ≤200% for 10 sec; >200% for 250 ms 2U online mode: > 110% & ≤ 130% for 5 min; > 130% & ≤140% for 30 sec; >140% for 1.5 sec			
BATTERY	Battery chemistry	Sealed, maintenance-free lead acid			
	Battery size	(4) 6V 290W	(3) 12V 9AH	(4) 12V 9AH	(6) 12V 9AH
	Typical recharge / charger	< 9 hours to 90%	< 3 hours to 95% with 2A charger current		
	Charging current	1A	2A default, adjustable Max 12A (1.5 & 2k)/8A (3k)		
	Charging voltage	27.4 VDC	41.1 VDC	54.8VDC	82.1VDC
PHYSICAL	Dimensions (W x D x H)**	17.2 x 17.8 x 1.7 in (437 x 452 x 43 mm)	17.2 x 15.1 x 3.5 in (437 x 384 x 89 mm)	17.2 x 19 x 3.5 in (437 x 482 x 89 mm)	17.2 x 23.8 x 3.5 in (437 x 605 x 89 mm)
	Weight	28 lbs (12.7 kg)	34.2 lbs (15.5 kg)	43 lbs (19.5 kg)	60.6 lbs (27.5 kg)
	Line cord	C14 inlet, 8 ft (2.4 m) L6-20P to C13 line cord		C20 inlet, 8 ft (2.4 m) L6-20P to C19 line cord	
	Receptacles	(3) C13	(8) IEC C13		(1) IEC C19 + (8) IEC C13
	Optional receptacles	L6-20R, 6-20, 6-15			L6-30R, L6-20R, 6-20, 6-15
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)			
	Altitude	11,500 ft (3505 m) above sea level			
APPROVALS		CE, RoHS, TAA compliant (UPS only)			
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232 (2U only), USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)			
INCLUDED IN BOX		ViewPower software, horizontal brackets, tower pedestals, user manual			
AVAILABLE OPTIONS		Bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit, wall mount bracket (2U units) Optional L6-30R, L6-20R, 6-20, 6-15 dongles			

\*Depending on load level. \*\*Rack depth is front bracket to unit panel. Add 25mm for depth including front bezel. \*\*\*Capacity derates to 90% at 208V output

## BATTERY RUNTIMES

	Internal batteries		External Battery Packs															
			1		2		3		4		5		6		7		8	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
P91gc-1000	20	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P91g-1500 (BP36)	10	3	42	17	84	33	120	51	157	72	199	93	244	112	289	128	339	146
P91g-1500 (BP36E)	10	3	84	33	157	72	244	112	339	146	449	189	523	233	N/A	N/A	N/A	N/A
P91g-2000 (BP48)	10	3	42	17	84	33	121	51	157	72	200	93	244	112	290	128	340	147
P91g-3000 (BP72)	10	3	42	17	84	33	121	52	158	73	201	94	246	112	292	129	343	148

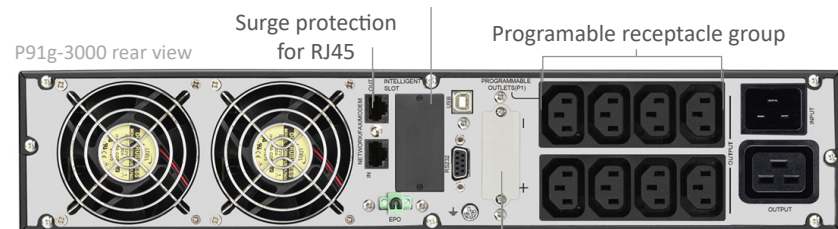
Maximum of eight battery packs per P91g-1500, P91g-2000, or P91g-3000 (excluding BP36E). Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.

### Individual switchable receptacles



P91gc-1000 rear view

Intelligent slot for optional communication card



P91g-3000 rear view

Surge protection for RJ45

Programable receptacle group

External battery connector

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

XPC EMEA / Rotterdam, NL / emea@xpcc.com

www.xpcc.com

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. P911-3.01U (Rev 4/15/20)

# XTREME POWER CONVERSION P90L

Online UPS // 120VAC or 208/230VAC

For more information, visit [www.xpcc.com/p90l](http://www.xpcc.com/p90l)



## Online UPS with a powerful charger for extended battery runtimes

The P90L is a true online UPS with an internal high capacity charger for connection to matching extended battery packs or large external systems.

The P90L provides tower, rack, and wall mount options. It protects your equipment from blackouts, brownouts, sags, and surges. The P90L offers the lowest total cost of ownership by cutting energy costs and lowering heat output.

For models with internal batteries, reference the P90 at [www.xpcc.com/p90](http://www.xpcc.com/p90)

### PRODUCT SNAPSHOT

- › Available models: P90L-1500, 2000, 3000
- › Tower, wall, 2-post and 4-post rack mounting configurations available
- › UL, cUL, CE, RoHS, TAA compliant
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**0.9 output power factor**—P90L 120V systems provide more real capacity for high density loads

**98% efficient operation**—high efficiency ECO mode lowers energy consumption

**Smart LCD display**—vital monitoring and precise information from the front panel

**Frequency converter**—P90L can be programmed to convert from 50Hz to 60Hz or 60Hz to 50Hz

**Hot swappable battery**—P90L optional battery packs are easy to replace without interrupting the load

**Multiple communications capability**—RS-232, USB, and optional Web/SNMP, Modbus, Relay/dry contact cards

**Load shedding capabilities**—maximize uptime for critical loads and equipment by shedding less critical loads

**Extended runtimes**—P90L can be connected with optional matching battery packs or large external battery systems with included battery cable kit

**\$50,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/p90l](http://www.xpcc.com/p90l)

MODEL NUMBER		P90L-1500	P90L-2000	P90L-3000	P90Lg-3000
CAPACITY	AC output	1250VA (1125W)	1700VA (1530W)	2500VA (2250W)	3000VA (2400W)
	DC charging	246W	328W	493W	656W
INPUT	Voltage range	50–150VAC*			110–300VAC*
	Frequency	50/60Hz auto-sensing			
OUTPUT	Voltage	120VAC nominal (100/110/115VAC selectable)**			208/220/230/240VAC***
	Frequency	50/60Hz ± 0.5Hz			
	THD (full load)	< 2%			
	Overload capacity	125% 2 min; 150% 10 sec; > 150% 1 sec			
BATTERY CHARGER	Charger amps	6A			
	Nominal/float voltage	36/41VDC	48/55VDC	72/82VDC	
PHYSICAL	Dimensions (W x D x H)	17.2 x 18.9 x 3.5 in	17.2 x 18.9 x 3.5 in	17.2 x 25.8 x 3.5 in	
	UPS weight	33 lbs	35 lbs	47 lbs	31 lbs
	Input connection	6 ft, 5–15P	6 ft, 5–20P	6 ft, L5–30P	8 ft, C19 to L6–20P
	Output connection	(8) NEMA 5–15R	(8) NEMA 5–15/20R	(1) NEMA L5–30R + (4) NEMA 5–15/20R	(1) IEC C19 + (6) IEC C13
ENVIRONMENT	Efficiency	Up to 98% ECO mode and 92% online mode (90% online mode for P90Lg-3000)			
	Operating temperature	32–104°F (0–40°C)			
	Audible noise	< 50dBA			
	Altitude	11,500 ft above sea level			
OPTIONAL BATTERY PACKS	Model number	P90-BP36 / 36E	P90-BP48	P90-BP72	
	Dimensions (W x D x H)	17.2 x 18.9 x 3.5 in 17.2 x 23.6 x 3.5 in (E)	17.2 x 18.9 x 3.5 in	17.2 x 23.6 x 3.5 in	
	BP weight	58.1 lbs / 104.4 lbs (E)	74.6 lbs	104.4 lbs	
	Battery	(6) 12V 9AH / 36V (12) 12V 9AH / 36V (E)	(8) 12V 9AH / 48V	(12) 12V 9AH / 72V	
APPROVALS		UL, cUL, RoHS, TAA compliant			CE, RoHS, TAA compliant
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)			
INCLUDED IN BOX		Software CD, horizontal brackets, tower pedestals, 16 in battery cable kit			
AVAILABLE OPTIONS		5 year extended warranty, bypass distribution (XBDM), power distribution (XPDU), 4-post rail kit, 2-post shelf kit			

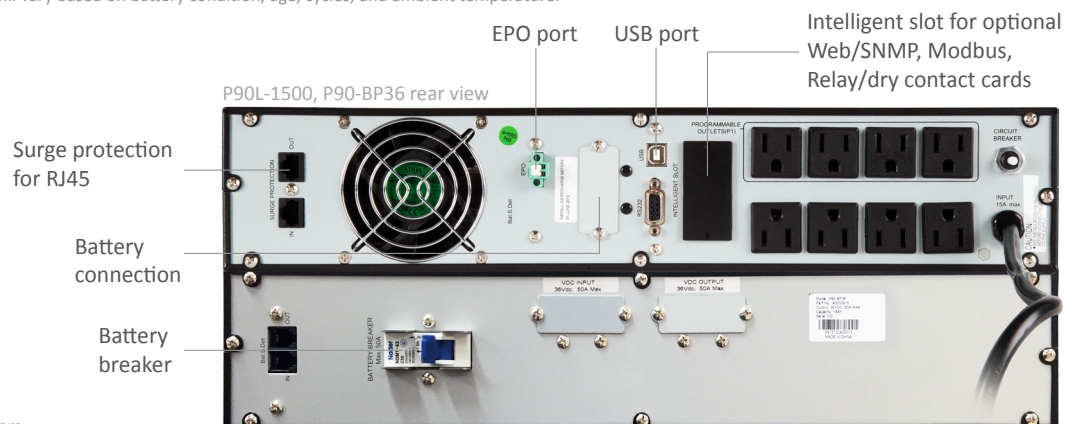
Rack depth is front bracket to unit panel. Add 1" for depth including front bezel. \*Depending on load level; \*\*P90L capacity derates 20% at 100V output voltage;

\*\*\*P90Lg-3000 capacity derates 20% at 208VAC output voltage.

## BATTERY RUNTIMES

	UPS + (1) BP		UPS + (2) BP		UPS + (3) BP		UPS + (4) BP		UPS + (5) BP		UPS + (6) BP		UPS + (7) BP		UPS + (8) BP	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
P90L-1500 (BP36)	26	15	63	36	105	61	140	90	183	115	228	136	274	164	322	193
P90L-1500 (BP36E)	63	36	140	90	228	136	322	193	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P90L-2000 (BP48)	25	14	61	35	102	60	137	88	179	113	223	133	268	160	314	188
P90L-3000 (BP72)	26	15	63	36	105	61	140	90	183	115	228	136	274	164	322	193
P90Lg-3000 (BP72)	23	13	58	33	97	56	130	84	169	107	211	128	254	152	298	178

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2016 Xtreme Power Conversion Corporation. All Rights Reserved. P90L01U (Rev 1/15/20)

# XTREME POWER CONVERSION T91

Online Tower UPS // 120VAC

For more information, visit [www.xpcc.com/t91](http://www.xpcc.com/t91)



## Unity power factor tower UPS provides high density online power protection for unstable power conditions

T91 UPS provides double conversion online power for light industrial applications, point of sale, servers, voice & data networks, and laboratories. T91 features unity output power factor to support up to 43% more critical loads than typical UPSs.

Extended battery runtimes are available from the T91 by adding up to seven matching battery packs.

T91 battery charger can be programmed to provide up to 8 amps of recharge current to insure batteries are recharged quickly and prepared for the next utility outage.

For 230V online UPS options, visit [www.xpcc.com/t91i](http://www.xpcc.com/t91i)

### PRODUCT SNAPSHOT

- › Available models: 700VA, 1000VA, 1500VA, 2000VA, 3000VA
- › Extended battery packs available
- › UL, cUL, RoHS, FCC A or B, TAA compliant
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

#### Unity output power factor—

T91 provides industry highest real power rating

#### Extended battery packs—

optional matching battery cabinets available for runtimes up to 4 hours.

#### Charging current—2A to 8A,

adjustable from LCD display

**Fast Recharge**—up to 95% in just 3 hours

#### Generator compatibility—

wide input voltage and frequency windows allow reliable generator compatibility

#### Multiple communications

**capability**—RS-232, USB, and optional Web/SNMP, Relay/dry contact and Modbus cards

#### Load shedding capabilities—

maximize up time for critical loads and equipment by shedding less critical loads

**Emergency power off**—allows for compliance with the highest of application safety standards

#### \$50,000 load protection

**policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/t91](http://www.xpcc.com/t91)

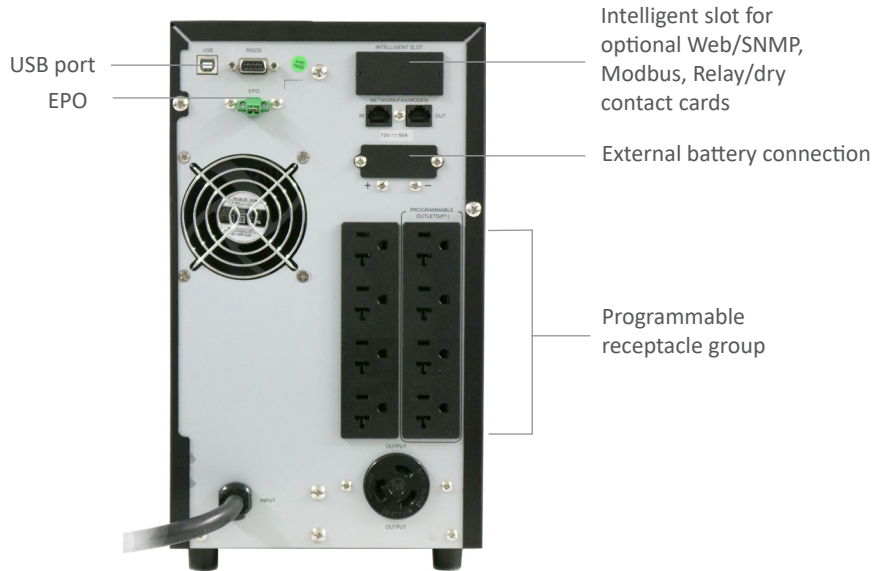
MODEL NUMBER		T91-700	T91-1000	T91-1500	T91-2000	T91-2000V2	T91-3000
CAPACITY	Power rating	700VA (700W)	1000VA (1000W)	1500VA (1450W)	2000VA (1930W)	2000VA (1930W)	3000VA (2880W)
INPUT	Voltage	120VAC nominal (55-150VAC)*					
	Frequency	50/60Hz auto-sensing					
	Power factor	>0.99 at full load					
OUTPUT	Voltage	120VAC nominal (100/110/115/127 selectable)**					
	Waveform	Pure sine wave, zero transfer time					
	Frequency	50/60Hz auto-sensing ≤ 1%					
	Efficiency	Up to 98% ECO Mode and 92% online mode					
	Overload capacity	> 110% & ≤ 130% for 5 min; > 130% & ≤140% for 30 sec; >140% for 1.5 sec					
BATTERY	Battery type	(2) 12V 9AH	(3) 12V 9AH	(3) 12V 9AH	(6) 12V 9AH		(6) 12V 9AH
	Recharge	3 hours to 95% for internal battery with 2A charge current					
	Battery charger	2A (default) to 8A, programmable from LCD display					
PHYSICAL	UPS dimensions	5.6" x 15.6" x 8.6" (W x D x H)			7.4" x 16.5" x 12.5" (W x D x H)		
	UPS weight	26 lbs	30 lbs	34.3 lbs	63 lbs		66 lbs
	Line cord	6 ft, 5–15P			6 ft, L5–20P	6 ft, 5-20P	6 ft, L5–30P
	Receptacles	(6) 5–15R			(1) L5-20R+(8) 5-20R		(1) L5-30R+(8) 5-20R
OPTIONAL BATTERY PACKS	Model number	T91-BP36A			T91-BP72A		
	Dimensions	5.6" W x 15.6" D x 8.6" H			7.4" W x 16.5" D x 12.5" H		
	Weight	44 lbs			82 lbs		
ENVIRONMENT	Temperature	32–104°F (0–40°C)					
	Audible noise	< 50 dBA					
	Altitude	11,500 ft above sea level					
APPROVALS		UL1778 (cTUVus), FCC B, RoHS, TAA			UL1778 (cTUVus), FCC A, RoHS, TAA		
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)					
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)					
INCLUDED IN BOX		ViewPower monitoring software CD, USB cable, user manual					
AVAILABLE OPTIONS		Extended warranty, bypass distribution (XBDM), power distribution (XPDU)					

\*Voltage range is load dependent. \*\*Capacities are based on highest selectable voltage. Some models derate at lower voltages.

## BATTERY RUNTIMES

	Internal battery		UPS+1BP		UPS+2BP		UPS+3BP		UPS+4BP		UPS+5BP		UPS+6BP		UPS+7BP	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
T91-700	16	5.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T91-1000	17	6	74	29	129	57	192	89	259	117	330	143	419	175	485	208
T91-1500	10	3	44	18	88	35	125	54	165	77	211	97	258	117	306	133
T91-2000/(V2)	18	6.4	77	30	133	59	200	93	270	121	350	149	437	183	500	217
T91-3000	10	3	45	18	89	35	126	54	167	78	212	97	260	118	309	134

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.



T91-2000 rear view

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2023 Xtreme Power Conversion Corporation. All Rights Reserved. T90.02U (Rev 3/7/23)

# XTREME POWER CONVERSION P91 5kW, 6kW, & 10kW

Online UPS // 208/230VAC or 240/120VAC

For more information, visit  
[www.xpcc.com/p91\\_5-10](http://www.xpcc.com/p91_5-10)



## Complete power protection in less space for high density loads

Designed for high density critical loads, the P91 delivers industry leading reliability, efficiency and flexibility.

P91 can be configured for online or ECO mode operation for efficiency of up to 99%. Output voltage and frequency are programmable to meet a wide range of USA and international requirements.

For distribution options, reference the XPDU at [www.xpcc.com/XPDU](http://www.xpcc.com/XPDU)

### PRODUCT SNAPSHOT

- › Available models: 5kVA/5kW, 6kVA/6kW, 10kVA/10kW
- › Tower, 2-post, and 4-post rack mounting configurations
- › Unity power factor
- › UL 1778, cUL, FCC, RoHS, CE, TAA compliant
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Unity output power factor**—P91 systems provide more real capacity for high density loads

**Efficient operation**—up to 94% online or 99% ECO mode efficiency lowers energy consumption

**Hot swappable battery**—P91 optional battery packs are easy to replace without interrupting the load

**Isolation transformer**—optional transformer provides 240/120 output

**Multiple communications capability**—RS-232, USB, and optional Web/SNMP, Modbus, Relay/dry contact cards

**XBDM**—optional input/output distribution, maintenance bypass switch, each output receptacle is protected by a breaker

**\$50,000 load protection policy**—protection against damaged connected equipment

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/p91\\_5-10](http://www.xpcc.com/p91_5-10)

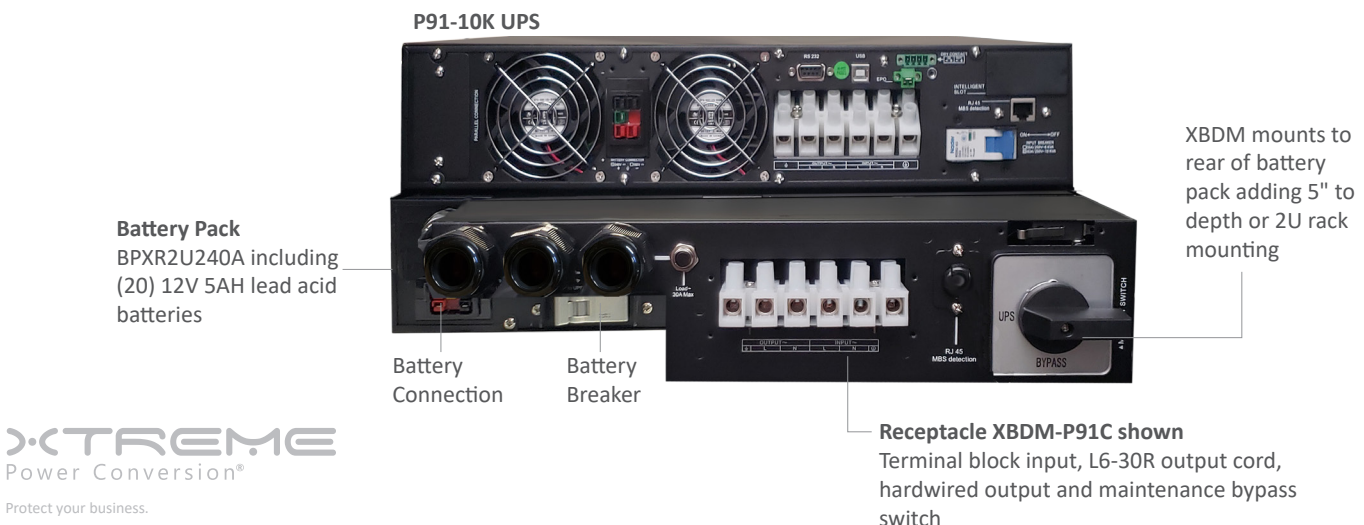
MODEL NUMBER		P91-5K	P91-6K	P91-10K
CAPACITY	Power rating	5kVA (5kW)	6kVA (6kW)	10kVA (10kW)
INPUT	Voltage	110–300VAC*		
	Frequency	50/60Hz +/-0.1Hz		
OUTPUT	Voltage	208/220/230/240VAC (240/120V with optional transformer)***		
	Frequency	50/60Hz +/-0.1Hz		
	THD (full load)	< 4%		
	Overload capacity	110% 10 min; 130% 1 min; > 130% 1 sec		
	Efficiency	Up to 94% online mode or 99% ECO mode		
BATTERY	Charger amps	1–4A		
	Nominal/float voltage	240/273VDC		
DIMENSIONS & WEIGHT	Dimensions (W x D x H)	17.2 x 23.6 x 3.5 in		
	Weight	33.1 lbs		39.7 lbs
BYPASS DISTRIBUTION MODULE	Model	XBDM-P91A (5 or 6kVA)	XBDM-P91B	XBDM-P91C
	Input connection	L6-30P with 6' cord	Terminal Blocks or optional line cord	
	Output connection	(2) L6-30R + (2) C19** each with breaker	Terminal block + L6-30R + (2) C19** each with breaker	Terminal block + L6-30R with breaker
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)		
	Audible noise	< 55dBA		< 58dBA
	Altitude	11,500 ft above sea level		
APPROVALS		UL 1778, cUL, FCC, RoHS, CE, TAA complaint		
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)		
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, relay/dry contact, modbus)		
INCLUDED IN BOX		Software CD, horizontal brackets, tower pedestals, USB cable		
AVAILABLE OPTIONS		5 year extended warranty, 4-post rail kit, 2-post shelf kit, 2U/3U isolation transformer		

\*Depending on load level. \*\*Optional locking C20 dongles; L6-30R, L6-20R, 6-20R. \*\*\* P91 capacity derates to 90% at 208V output voltage. 6kVA system capacity will be reduced by 30A input circuit.

## BATTERY PACK DATA & RUNTIMES

		Qty	1kW	2kW	3kW	4kW	5kW	6kW	7kW	8kW	9kW	10kW
Model Number	<b>BPXR2U240A</b>	1 BP	53	27	15	11	7	5	4	4	3	2
Dimensions	17.2 x 27.4 x 3.5 in (2U)	2 BP	117	61	38	27	20	15	13	11	9	7
Battery Quantity/Type	(20) 12V 5AH Lead Acid	3 BP	171	100	62	43	33	27	22	18	15	13
Model Number	<b>BPXR3U240A</b>	1 BP	92	46	29	20	15	12	10	8	7	6
Dimensions	17.2 x 27.4 x 5.2 in (3U)	2 BP	182	106	66	47	36	29	24	20	18	15
Battery Quantity/Type	(20) 12V 580W Lead Acid	3 BP	287	151	107	76	58	47	39	33	29	25

Runtimes are shown in minutes and will vary based on battery age and site conditions. For longer runtimes please contact [sales@xpcc.com](mailto:sales@xpcc.com) or visit [www.xpcc.com/selector/](http://www.xpcc.com/selector/)



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. P915-10.01U (Rev 1/15/20)

# XTREME POWER CONVERSION M90S-2S

2 Slot Online UPS // 208/120VAC Single-Phase

For more information, visit [www.xpcc.com/m90s-2s](http://www.xpcc.com/m90s-2s)



## Modular, Flexible UPS for Continuous Power Availability

Xtreme Power M90S UPS is a modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90S provides unity power factor output (kVA = kW) providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminates the need for external component connections, reducing installation costs.

The flexible M90S 2 slot easily mounts into a standard rack enclosure or installs as a tower with a caster base. Output receptacles can be customized to meet your specific needs.

For a 4 slot or 6 slot enclosure reference at [www.xpcc.com/m90s4s](http://www.xpcc.com/m90s4s) or [www.xpcc.com/m90s6s](http://www.xpcc.com/m90s6s)

### PRODUCT SNAPSHOT

- › Capacity: 6kVA/6kW
- › Up to 98% ECO mode or 93% online efficiency
- › Unity output power factor (kVA = kW)
- › Hardwired or cord/receptacle configurations
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Maintenance bypass—**  
full wrap around rear-mounted maintenance bypass

**Optional receptacle panel—**  
fully configurable output receptacle panel

**Reduce energy cost—**  
best-in-class energy efficiency provides lowest energy consumption and heat output

**Dual voltage output—**  
240/120V or 208/120V supports mixed voltage loads and receptacle types

**\$50,000 load protection policy—**offers protection against damaged connected equipment

**Rack or tower mount—**  
rail kits or caster base configurations available

**LCD display—**LCD display of power metering for individual phases and system summary

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90-s2s](http://www.xpcc.com/m90-s2s)

MODEL NUMBER		M90S-2S6K
CAPACITY	Power Rating	6kVA/6kW
INPUT	Voltage/frequency nominal	120/208V or 120/240V & 50/60Hz auto-sensing (2PH+N+G)
	Voltage/frequency range	152-269VAC* (L-L) / 40-70Hz
OUTPUT	Voltage / Frequency	120/208V or 120/240V & 50/60Hz $\pm 0.1$ Hz; (2PH+N)
	THD (full load)	$\leq 2\%$ (Linear load); $\leq 3\%$ (Non linear load)
	Efficiency	Up to 98% ECO mode, 93% online mode
	Overload capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms
BATTERY SYSTEM	Nominal voltage	+/-96V
	Max charging (adjustable)	4A
	Optional Battery Enclosure	7 slots for additional battery modules
MODULE DIMENSIONS & WEIGHT	Power module	16.3"W x 24" D x 5.2"H / 38 lbs
	Battery module	16.3"W x 24"D x 5.2"H / 107 lbs
SYSTEM ENCLOSURE DIMENSIONS & WEIGHT	UPS enclosure tower	17.5"W x 31.5"D x 14.5"H / 42 lbs
	UPS enclosure rack	17.3"W x 31.5"D x 10.5"H (6U) / 34 lbs
	Battery enclosure	17.4"W x 33.7"D x 45.5"H / 162 lbs
ENVIRONMENT	Temperature	0-40°C (32-104°F)
	Altitude	5,200 ft above sea level
	Audible noise	< 58dBA at 1m
APPROVALS		UL-1778 (TUV), cUL, FCC A, RoHS
WARRANTY		3 year electronics, 3 year battery (USA and Canada)
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay, Modbus)
INCLUDED IN BOX		User manual, USB cable, R2-232 cable, ViewPower Software
AVAILABLE OPTIONS		L14-30P line cord, receptacle panel, extended battery cabinet, caster base 5 year extended warranty, 4-post rail kit

\*Depending on load level

## BATTERY RUNTIMES

Battery Modules	1		2		3		4		5		6		7		8	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
M90S-2S6K	21	9	49	22	80	35	111	50	131	66	160	82	189	99	220	113

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum 8 battery modules per UPS power module.

Receptacle Panels	
A	(8) 5-20R
B	(2) C19 + (4) 5-20R
C	L6-30R + (2) C19
D	L14-30R + (2) C19
E	(2) L6-20R + (4) 5-20R
F	L6-20R + L6-30R + (4) 5-20R
G	L6-30R + (2) L6-20R
H	(3) L6-30R

Maximum of 1 receptacle panel per enclosure

**6kVA/6kW Power Module**  
includes PFC rectifier, battery charger, inverter and control circuits

**Battery Module**  
includes 2 hot swappable batteries trays



M90S-2SKT front view

**Optional Receptacle Panel**

**Input breaker**

**Maintenance Bypass Switch**

**Output breaker**



M90S-2SKT rear view

**AC Terminal Blocks**

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2019 Xtreme Power Conversion Corporation. All Rights Reserved. M90S.01U (6/10/19)

# XTREME POWER CONVERSION M90S-4S

4 Slot Modular Online UPS // 208/120VAC Single-Phase

For more information, visit [www.xpcc.com/m90s-4s](http://www.xpcc.com/m90s-4s)



## Scalable, Modular, Flexible for Continuous Power Availability

Xtreme Power M90S UPS is a scalable, modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90S provides unity power factor output (kVA = kW) providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminate the need for external component connections, reducing installation costs.

Capacity, redundancy, battery runtime, and output receptacles can all be customized to meet your specific needs. Hot swappable power and battery modules provide rapid maintenance and repair.

For a 2 slot or 6 slot enclosure reference at [www.xpcc.com/m90s-2s](http://www.xpcc.com/m90s-2s) or [www.xpcc.com/m90s-6s](http://www.xpcc.com/m90s-6s)

### PRODUCT SNAPSHOT

- › Two capacities: 6kVA/6kW, 12kVA/12kW
- › Modular for capacity or redundancy
- › Unity output power factor (kVA = kW)
- › Hot swappable power and battery modules
- › Up to 98% ECO mode or 93% online efficiency
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Scalable**—when power or runtime requirements change, modules can be added to increase capacity

**Maintenance bypass**—manually transfer critical loads from UPS power to utility power, enabling M90S maintenance

**Large LCD display**—5.7" display provides graphic display including status and alarms

**Optional receptacle panels**—fully configurable output receptacle panels

**Power module LCD**—each power module includes LCD display, providing module detailed information and redundancy

**Highest availability**—system can be configured with redundant power and battery modules

**Reduce energy cost**—best-in-class energy efficiency provides lowest energy consumption and heat output

**XTREME**  
Power Conversion®

Protect your business.

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90s-4s](http://www.xpcc.com/m90s-4s)

MODEL NUMBER		M90S-4S6K	M90S-4S12K
CAPACITY	Power Rating	6kVA/6kW	12kVA/12kW
INPUT	Voltage / frequency nominal	120/208V or 120/240V & 50/60Hz auto-sensing (2PH+N+G)	
	Voltage / frequency range	152-269VAC* (L-L) / 40-70Hz	
OUTPUT	Voltage & Frequency	120/208V or 120/240V & 50/60Hz $\pm$ 0.1Hz; (2PH+N)	
	Efficiency / THD (full load)	Up to 98% ECO mode, 93% online mode / $\leq$ 2% (Linear load); $\leq$ 3% (Non linear load)	
	Overload capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms	
BATTERY SYSTEM	Nominal voltage	+/-96V	
	Max charging (adjustable)	4A	8A
MODULE DIMENSION & WEIGHT	Power module	16.3"W x 24"D x 5.2"H / 38 lbs	
	Battery module	16.3"W x 24"D x 5.2"H / 107 lbs	
SYSTEM ENCLOSURE	Dimensions & Weight	UPS 17.4"W x 33.7"D x 33"H & 130 lbs / BC7 17.4"W x 33.7"D x 45.5"H & 162 lbs	
	Maximum Capacity	12kVA	
	Enclosure Capacity	4 slots including 2 universal slots + 2 battery only slots	
	Optional Battery Enclosure	7 slots for additional battery modules	
	Output Connections	Terminal blocks and/or up to 2 receptacle panels	
ENVIRONMENT	Temperature	0-40°C (32-104°F)	
	Altitude	5,200 ft above sea level	
	Audible noise	< 58dBA at 1m	
APPROVALS		UL-1778 (TUV), cUL, FCC A, RoHS	
WARRANTY		3 year electronics, 3 year battery (USA and Canada)	
COMMUNICATIONS INTERFACE		RS-232, USB, Dry Contacts, EPO, (2) intelligent slot for optional cards (Web/SNMP, Relay, Modbus)	
INCLUDED IN BOX		User manual, USB cable, RS-232 cable, ViewPower Software, anchor brackets	
AVAILABLE OPTIONS		L14-30P line cord (6kVA), receptacle panels (2 max), extended battery cabinet, 5 year extended warranty	

\*Depending on load level

## BATTERY RUNTIMES

Battery Modules	4S UPS				4S UPS + 1 BC7						4S UPS + 2 BC7				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6kW	9	22	35	50	66	82	99	113	124*	133*	148*	163*	179*	194*	209*
12kW	-	9	15	22	28	35	43	50	58	66	74	82	90	99	106

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum of 8 battery modules per UPS power module.

\*Additional power module required for battery recharge.

Receptacle Panels	
A	(8) 5-20R
B	(2) C19 + (4) 5-20R
C	L6-30R + (2) C19
D	L14-30R + (2) C19
E	(2) L6-20R + (4) 5-20R
F	L6-20R + L6-30R + (4) 5-20R
G	L6-30R + (2) L6-20R
H	(3) L6-30R

Maximum of 2 receptacle panels per enclosure

### LCD Display

5.7" display provides graphic display including status and alarms

### 6kVA/6kW Power Module

includes PFC rectifier, battery charger, inverter and control circuits

### Battery Module

includes 16 pieces of 12V 580W batteries

### Maintenance Bypass

full wrap around maintenance bypass (located behind hinged LCD display)

### AC Terminal Blocks & Breakers

Up to 2 Receptacle Panels

DC Terminal Blocks

**X-TREME**  
Power Conversion®

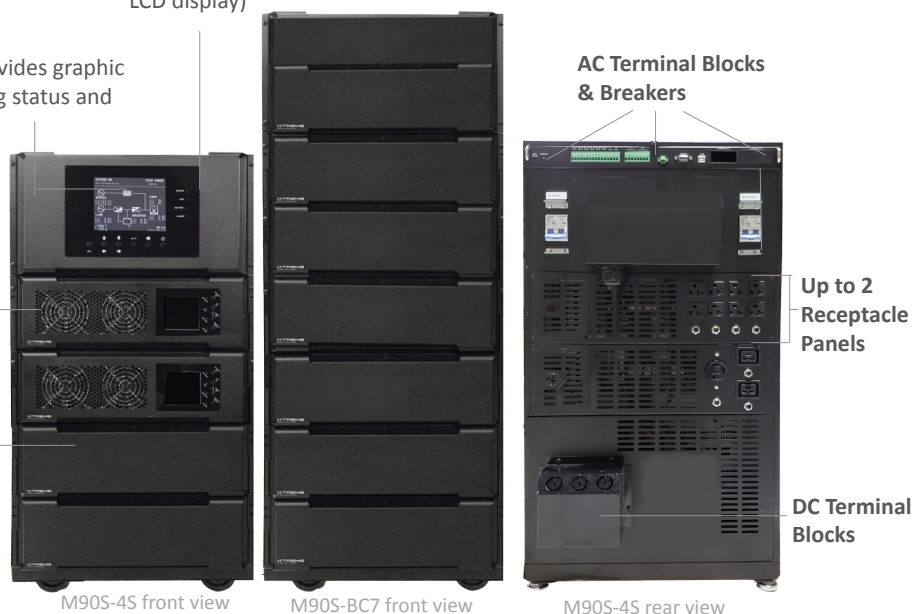
Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2019 Xtreme Power Conversion Corporation. All Rights Reserved. M90S-4S.02U (3/13/19)



# XTREME POWER CONVERSION M90S-6S

6 Slot Modular Online UPS // 208/120VAC Single-Phase

For more information, visit [www.xpcc.com/m90s-6s](http://www.xpcc.com/m90s-6s)



## Scalable, Modular, Flexible for Continuous Power Availability

Xtreme Power M90S UPS is a scalable, modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90S provides unity power factor output (kVA = kW) providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminate the need for external component connections, reducing installation costs.

Capacity, redundancy, battery runtime, and output receptacles can all be customized to meet your specific needs. Hot swappable power and battery modules provide rapid maintenance and repair.

For a 2 slot or 4 slot enclosure reference at [www.xpcc.com/m90s-2s](http://www.xpcc.com/m90s-2s) or [www.xpcc.com/m90s-4s](http://www.xpcc.com/m90s-4s)

### PRODUCT SNAPSHOT

- › Four capacities: 6kVA/6kW, 12kVA/12kW, 18kVA/18kW, 24kVA/24kW
- › Modular for capacity or redundancy
- › Unity output power factor (kVA=kW)
- › Hot swappable power and battery modules
- › Up to 98% ECO mode or 93% online efficiency
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Scalable**—when power or runtime requirements change, modules can be added to increase capacity

**Highest availability**—system can be configured with redundant power and battery modules

**Large LCD display**—5.7" display provides graphic display including status and alarms

**Optional receptacle panels**—fully configurable output receptacle panels

**Power module LCD**—each power module includes LCD display, providing module detailed information and redundancy

**Maintenance bypass**—manually transfer critical loads from UPS power to utility power, enabling M90S maintenance

**Reduce energy cost**—best in class energy efficiency provides lowest energy consumption and heat output

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90s-6s](http://www.xpcc.com/m90s-6s)

MODEL NUMBER		M90S-6S6K	M90S-6S12K	M90S-6S18K	M90S-6S24K
CAPACITY	Power Rating	6kVA/6kW	12kVA/12kW	18kVA/18kW	24kVA/24kW
INPUT	Voltage/Frequency Nominal	120/208V or 120/240V // 50/60Hz auto-sensing (2PH+N+G)			
	Voltage/Frequency Range	152-269VAC* (L-L) / 40-70Hz			
OUTPUT	Voltage & Frequency	120/208V or 120/240V & 50/60Hz $\pm$ 0.1Hz; (2PH+N)			
	Efficiency / THD (full load)	Up to 98% ECO mode, 93% online mode / $\leq$ 2% (Linear load); $\leq$ 3% (Non linear load)			
	Overload Capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms			
BATTERY SYSTEM	Nominal Voltage	+/-96V			
	Max charging (adjustable)	4A	8A	12A	16A
MODULE DIMENSION & WEIGHT	Power Module	16.3"W x 24"D x 5.2"H / 38 lbs			
	Battery Module	16.3"W x 24"D x 5.2"H / 107 lbs			
SYSTEM ENCLOSURE	Dimensions & Weight	17.4"W x 33.7"D x 45.5"H (UPS & BC7) // UPS=169 lbs / BC7=162 lbs			
	Maximum Capacity	24kVA			
	Enclosure Capacity	6 slots including 4 universal slots + 2 battery only slots			
	Optional Battery Enclosure	7 slots for additional battery modules			
	Output Connections	Terminal blocks and/or up to 4 receptacle panels			
ENVIRONMENT	Temperature	0-40°C (32-104°F)			
	Altitude	5,200 ft above sea level			
	Audible noise	< 58dBA at 1m			
APPROVALS		UL-1778 (TUV), cUL, FCC A, RoHS			
WARRANTY		3 year electronics, 3 year battery (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232, USB, dry contacts, EPO, (2) intelligent slots for optional cards (Web/SNMP, Relay, Modbus)			
INCLUDED IN BOX		User manual, USB cable, RS-232, ViewPower software, anchor brackets			
AVAILABLE OPTIONS		L14-30P line cord (6kVA), receptacle panels (4 max), extended battery cabinet, 5 year extended warranty			

\*Depending on load level

## BATTERY RUNTIMES

Battery Modules	6S UPS					6S UPS + 1 BC7						6S UPS + 2 BC7			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6kW	9	22	35	50	66	82	99	113	124*	133*	148*	163*	179*	194*	209*
12kW	-	9	15	22	28	35	43	50	58	66	74	82	90	99	106
18kW	-	-	9	13	17	22	26	31	35	40	45	50	55	61	66
24kW	-	-	-	9	12	15	19	22	25	28	32	35	39	43	46

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum 8 battery modules per UPS power module.

\*Additional power module required for battery recharge.

Receptacle Panels	
A	(8) 5-20R
B	(2) C19 + (4) 5-20R
C	L6-30R + (2) C19
D	L14-30R + (2) C19
E	(2) L6-20R + (4) 5-20R
F	L6-20R + L6-30R + (4) 5-20R
G	L6-30R + (2) L6-20R
H	(3) L6-30R

Maximum of 4 receptacle panels per enclosure

### LCD Display

5.7" display provides graphic display including status and alarms

### Maintenance Bypass

full wrap around maintenance bypass (located behind hinged LCD display)

### 6kVA/6kW Power Module

includes PFC rectifier, battery charger, inverter and control circuits

### Battery Module

includes 16 pieces of 12V 580W batteries

### AC Terminal Blocks & Breakers

Receptacle Panels install up to 4

DC Terminal Blocks



M90S-6S front view

M90S-BC7 front view



M90S-6S rear view

**X-TREME**  
Power Conversion\*

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

XPC EMEA / Rotterdam, NL / emea@xpcc.com

[www.xpcc.com](http://www.xpcc.com)

# XTREME POWER CONVERSION M90C-2S

2 Slot Online UPS // 208/120VAC Three-Phase

For more information, visit [www.xpcc.com/M90c-2s](http://www.xpcc.com/M90c-2s)



## Modular Three Phase UPS for Continuous Power Availability

Xtreme Power M90C UPS is a modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90C provides unity power factor output providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminates the need for external component connections, reducing installation costs.

The flexible M90C-2S easily mounts into a standard 19" rack or installs as a tower with a caster base. Line cord, and output receptacles can be customized to meet your specific needs.

For a 6 slot enclosure reference at [www.xpcc.com/m90c-6s](http://www.xpcc.com/m90c-6s)

### PRODUCT SNAPSHOT

- › Capacity: 5kW or 8kW
- › Up to 98% ECO mode or 93% online efficiency
- › Unity output power factor
- › Hardwired or Plug and Receptacle configurations
- › 2 year warranty (USA and Canada)

### FEATURES

#### Maintenance bypass—

Simplifies UPS repair or replacement and reduces costly downtime

#### Optional receptacle panel—

configure with L21-20R or L21-30R output receptacles

#### Reduce energy cost—

best-in-class energy efficiency provides lowest energy consumption and heat output

#### \$50,000 load protection

**policy**—offers protection against damaged connected equipment

#### Rack or tower mount—

rail kits or caster base configurations available

**LCD display**—LCD display of power metering for individual phases and system summary

#### Line cord—

optional input cord set simplifies field installation

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90c-2s](http://www.xpcc.com/m90c-2s)

MODEL NUMBER		M90C-2S5K	M90C-2S8K
CAPACITY	Power Rating	5kVA/5kW	8kVA/8kW
INPUT	Voltage/frequency nominal	120/208V, 50/60Hz auto-sensing (3PH+N+G)	
	Voltage/frequency range	152-269VAC* (L-L) / 40-70Hz	
OUTPUT	Voltage / Frequency	120/208V, 50/60Hz $\pm 0.1\text{Hz}$ ; (3PH+N)	
	THD (full load)	$\leq 2\%$ (Linear load); $\leq 3\%$ (Non linear load)	
	Efficiency	Up to 98% ECO mode, 93% online mode	
	Overload capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms	
BATTERY SYSTEM	Nominal voltage	+/-96Vdc or +/-120Vdc (+/-96Vdc default)	
	Max charging (adjustable)	4A	
MODULE DIMENSIONS & WEIGHT	Power module	16.3"W x 24" D x 5.2"H / 38 lbs	
	Battery module	16.3"W x 24"D x 5.2"H / 107 lbs	
SYSTEM ENCLOSURE	M90C-2S enclosure	17.3"W x 31.5"D x 10.5"H (6U) / 34 lbs	
	Input connections	Terminal blocks or L21-20P line cord	Terminal blocks or L21-30P line cord
	Output connections	Terminal blocks or optional output receptacles	
ENVIRONMENT	Temperature	0-40°C (32-104°F)	
	Altitude	5,200 ft above sea level	
	Audible noise	< 58dBA at 1m	
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA compliant	
WARRANTY		2 year warranty (USA and Canada)	
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay, Modbus)	
INCLUDED IN BOX		User manual, USB cable, R2-232 cable, ViewPower Software	
AVAILABLE OPTIONS		L21-20P or L21-30P line cord, receptacle panel, extended battery cabinet, caster base, 5 year extended warranty, 4-post rail kit	

\*Depending on load level

## BATTERY RUNTIMES

Load (kW)	1kW	2kW	3kW	4kW	5kW	6kW	7kW	8kW
M90C-2S5K	85	38	22	15	12	-	-	-
M90C-2S8K	85	38	22	15	12	9	7	6

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum 8 battery modules per UPS power module.

Receptacle Panels	
M90C-RPI	(1) L21-20R and breaker
M90C-RPJ	(1) L21-30R and breaker

Maximum of 1 receptacle panel per enclosure

### Modular Design

back plane connector for ease of installation and maintenance of UPS and Battery modules



M90C-2S front view

**X-TREME**  
Power Conversion\*

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2023 Xtreme Power Conversion Corporation. All Rights Reserved. M90C.01U (1/19/23)

Optional  
Receptacle Panel

Input breaker

Maintenance Bypass

Output breaker



M90C-2S rear view

# XTREME POWER CONVERSION M90C-6S

6 Slot Modular Online UPS // 208/120VAC Three-Phase 5-24kW

For more information, visit [www.xpcc.com/m90c-6s](http://www.xpcc.com/m90c-6s)



## Compact Three-Phase Modular UPS for Continuous Power

Xtreme Power M90C-6S UPS is a scalable, modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90C provides unity power factor output providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminate the need for external component connections, reducing installation costs.

Capacity, redundancy, battery runtime, and output receptacles can all be customized to meet your specific needs. Hot swappable power and battery modules provide rapid maintenance and repair.

For 5kW or 8kW rack mount configurations, reference at [www.xpcc.com/m90c-2s](http://www.xpcc.com/m90c-2s)

### PRODUCT SNAPSHOT

- › Six capacities: 5kW, 10kW, 15kW, 8kW, 16kW, 24kW
- › Modular for capacity or redundancy
- › Unity output power factor (kVA=kW)
- › Hot swappable power and battery modules
- › Up to 98% ECO mode or 93% online efficiency
- › 2 years electronics, 2 years battery warranty (USA and Canada)

### FEATURES

**Scalable**—when power or runtime requirements change, modules can be added to increase capacity

**Highest availability**—system can be configured with redundant power and battery modules

**Large LCD display**—5.7" display provides graphic display including status and alarms

**Optional receptacle panels**—fully configurable output receptacle panels

**Power module LCD**—each power module includes LCD display, providing module detailed information and redundancy

**Maintenance bypass**—manually transfer critical loads from UPS power to utility power, enabling M90C maintenance

**Reduce energy cost**—best in class energy efficiency provides lowest energy consumption and heat output

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90c-6s](http://www.xpcc.com/m90c-6s)

MODEL NUMBER		M90C-6S5K	M90C-6S10K	M90C-6S15K	M90C-6S8K	M90C-6S16K	M90C-6S24K
CAPACITY	Power Rating	5kVA/5kW	10kVA/10kW	15kVA/15kW	8kVA/8kW	16kVA/16kW	24kVA/24kW
INPUT	Voltage/Frequency Nominal	120/208V, 50/60Hz auto-sensing (3PH+N+G)					
	Voltage/Frequency	120/208V, 50/60Hz; (3PH+N)					
OUTPUT	Voltage & Frequency	120/208V 50/60Hz $\pm$ 0.1Hz; (3PH+N)					
	Efficiency / THD (full load)	Up to 98% ECO mode, 93% online mode / $\leq$ 2% (Linear load); $\leq$ 3% (Non linear load)					
	Overload Capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms					
BATTERY SYSTEM	Nominal Voltage	+/-96Vdc or +/-120Vdc (+/-96Vdc default)					
	Max charging (adjustable)	4A	8A	12A	4A	8A	12A
MODULE DIMENSION & WEIGHT	Power Module	16.3"W x 24"D x 5.2"H / 38 lbs					
	Battery Module	16.3"W x 24"D x 5.2"H / 107 lbs					
SYSTEM ENCLOSURE	Dimensions & Weight	17.4"W x 33.7"D x 45.5"H (UPS & BC7) // UPS=169 lbs / BC7=162 lbs					
	Maximum Capacity	24kW					
	Enclosure Capacity	6 slots including 1 power module only, 3 universal slots, 2 battery only					
	Optional Battery Enclosure	7 slots for additional battery modules					
	Output Connections	Terminal blocks and/or up to 4 receptacle panels					
ENVIRONMENT	Temperature	0–40°C (32–104°F)					
	Altitude	5,200 ft above sea level					
	Audible noise	< 58dBA at 1m					
APPROVALS		UL-1778 (TUV), cUL, FCC A, RoHS, TAA compliant					
WARRANTY		2 year electronics, 2 year battery (USA and Canada)					
COMMUNICATIONS INTERFACE		RS-232, USB, dry contacts, EPO, (2) intelligent slots for optional cards (Web/SNMP, Relay, Modbus)					
INCLUDED IN BOX		User manual, USB cable, RS-232, ViewPower software, anchor brackets					
AVAILABLE OPTIONS		L21-20P line cord (5kW), L21-30P line cord (8kW), receptacle panels (4 max), extended battery cabinet, 5 year extended warranty					

\*Depending on load level

## BATTERY RUNTIMES

Battery Modules	6S UPS					6S UPS + 1 BC7							6S UPS + 2 BC7				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5kW	12	28	46	66	86	106	121	133	151*	170*	190*	209*	228*	248*	268*	288*	308*
10kW	N/A	12	20	28	37	46	56	66	76	86	96	106	114	121	127	133	142*
15kW	N/A	7	12	17	23	28	34	40	46	53	59	66	72	79	86	93	100
Battery Modules	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
8kW	6	16	26	37	49	61	73	86	99*	110*	119*	127*	135*	147*	159*	170*	182*
16kW	N/A	6	11	16	21	26	32	37	43	49	55	61	67	73	79	86	92*
24kW	N/A	N/A	6	9	13	16	19	23	26	30	33	37	41	45	49	53	57

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum 8 battery modules per UPS power module.

\*Additional power module(s) required for battery recharge. Contact [sales@xpcc.com](mailto:sales@xpcc.com) for longer runtimes.

Receptacle Panels	
A	(8) 5-20R
B	(2) C19 + (4) 5-20R
C	L6-30R + (2) C19
D	L14-30R + (2) C19
E	(2) L6-20R + (4) 5-20R
F	L6-20R + L6-30R + (4) 5-20R
G	L6-30R + (2) L6-20R
H	(3) L6-30R
I	(1) L21-20R and breaker
J	(1) L21-30R and breaker
K	(2) L21-20R
L	(2) L21-30R

Maximum of 4 receptacle panels per enclosure

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

**Maintenance Bypass**  
full wrap around  
maintenance bypass  
(located behind  
hinged LCD display)

**5kW or 8kW Power Modules**  
includes rectifier,  
charger, inverter and  
static switch

**Battery Module**  
includes 16 pieces of  
12V 580W batteries



M90C-6S front view

## AC Terminal Blocks & Breakers



M90C-6S rear view

**Communication Module**  
provides dry con-  
tacts, EPO, RS232,  
USB and two slots  
for Web/SNMP,  
Modbus, or As400  
cards

**Receptacle Panels**  
install  
up to 4

**DC Terminal Blocks**

# XTREME POWER CONVERSION TX91

Isolated Online Tower UPS // 240/120VAC or 230/115VAC

For more information, visit <https://www.xpcc.com/tx91-3-10k>



## Isolated online UPS provides protection from all 10 common power problems

Isolated online UPS provides the cleanest power in the most demanding conditions. The TX91 galvanic isolation transformer prevents common mode noise which is left exposed by typical transformerless online designs.

Isolated online applications include retail, industrial environments, laboratories, and any installation with grounding or noise issues.

TX91 provides dual output voltages and optional configurable PDU to meet a wide range of receptacle requirements.

For Isolated Online Voltage Regulation without internal batteries reference [www.xpcc.com/txvr](https://www.xpcc.com/txvr)

### PRODUCT SNAPSHOT

- › Available models: 3.8kVA/3.8kW, 5kVA/5kW, 6kVA/6kW, 10kVA/10kW
- › Optional extended batteries
- › Auto restart
- › UL1778, cUL, FCC Class A, RoHS, TAA compliant
- › 3 years electronics, 3 years battery warranty (USA and Canada)

### FEATURES

**Maintenance bypass**—manually transfer critical loads from UPS power to utility power, enabling TX91 UPS maintenance

**Galvanic isolation transformer**—eliminates common mode noise and the need to install expensive dedicated circuits and provides power conditioning during normal and bypass operation

**Extended battery runtimes**—optional 580W internal batteries (XR models). External battery cabinets can also be added for extended runtime

**Surge voltage let-through (max)**—< 10V normal mode (L-N), < 0.5V common mode (N-G) when subjected to 6kV ANSI/IEEE C62.41 Cat. A

**Static switch**—automatically transfers output from inverter to the isolated bypass source in the event of an overload or fault

**Surge voltage withstand capability**—ANSI/IEEE C62.41 Category A & B, 6kV/200 & 500A, 100kHz ringwave

**LCD display**—monitor vital and precise information

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/tx91](http://www.xpcc.com/tx91)

MODEL NUMBER		TX91-3.8K	TX91-5K	TX91-6K	TX91-10K
CAPACITY	Power rating	3.8kVA (3.8kW)	5kVA (5kW)	6kVA (6kW)	10kVA (10kW)
INPUT	Voltage (nominal)	208VAC (220VAC, 230VAC, 240VAC optional)			
	Voltage range	110-300VAC*			
	Frequency	46–64Hz auto-sensing			
OUTPUT	Voltage	240/120VAC***			
	Voltage regulation	± 1%			
	Frequency	50/60Hz ± 0.1Hz			
	Overload capacity	110% 10 min; 130% 1 min; >130% 1 sec			
	Efficiency	Up to 97% ECO mode, 91% online mode			
BATTERY/CHARGER	Battery type	Sealed, maintenance-free lead acid			
	Battery quantity and size (standard / XR models)	(20) 12V 9AH / (20) 12V 580W			
	Charger voltage/current	273VDC / 1A-4A (selectable)			
PHYSICAL	Input/output	Terminal blocks or optional PDU			
	Dimensions (W x D x H)	9.9 x 23.3 x 32.4 in			
	Weight	272 lbs	275 lbs	278 lbs	307 lbs
OPTIONAL BATTERY PACKS	Battery quantity and size	BP960-1(20) 12V 9AH; BP960-2(40) 12V 9AH; BP960-3(60) 12V 9AH			
	Dimensions (W x D x H)	9.9 x 23.3 x 32.4 in			
	Weight	BP960-1 - 190lbs; BP960-2 - 320 lbs; BP960-3 - 450 lbs			
OPTIONAL PDU	Input connection	Terminal blocks or 6 ft, L6–30P*		6 ft, L6–30P* (6kVA only) or terminal blocks	
	120V receptacles	(4) 5–15/20R		(4) 5–15/20R	
	240V receptacles	(6) C19		(4) C19 + L6-30R	
	240V receptacle options	L6–30R, L6–20R, 6–15/20R			
ENVIRONMENT	Temperature	32–104°F (0–40°C)			
	Audible noise	< 50dBA			
	Altitude	11,500 ft above sea level			
APPROVALS		UL1778, cUL, FCC Class A, RoHS, TAA compliant			
WARRANTY		3 years electronics, 3 years battery warranty (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)			
INCLUDED IN BOX		User manual, RS-232 communication cable, ViewPower Software CD			
AVAILABLE OPTIONS		5 year extended warranty, output PDU, input L6–30P cord (for 3.8kVA, 5kVA & 6kVA)			

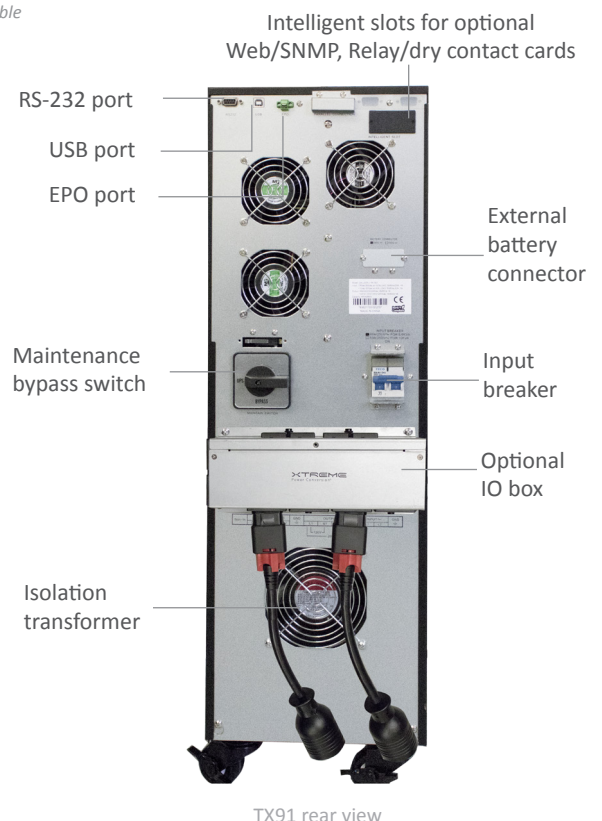
\*Depending on load level. \*\*6kVA system capacity will be reduced by 30A input circuit \*\*\*Alternate voltages available

## BATTERY

	Internal battery		XR Internal*		+ BP960-1		+ BP960-2	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%
TX91-3.8K	37	15	48	21	92	38	140	64
TX91-5K	26	10	35	15	64	26	106	45
TX91-6K	20	8	28	12	50	21	87	35
TX91-10K	9	3	14	6	23	10	39	18
	+ BP960-3		+ (2) BP960-2		+ (2) BP960-3		+ (3) BP960-3	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%
TX91-3.8K	198	94	258	120	403	172	572	265
TX91-5K	142	65	186	89	279	126	443	190
TX91-6K	119	51	149	70	224	105	349	153
TX91-10K	58	26	79	35	116	55	170	89

Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.

\*Battery packs not to be used with XR models.



**XTREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. TX91.03U (Rev 1/15/20)

# XTREME POWER CONVERSION TXVR

Isolated Online Voltage Regulator // 208VAC, 240/120VAC or 230/115VAC

For more information, visit [www.xpcc.com/txvr](http://www.xpcc.com/txvr)



## Power conditioning for voltage critical processes in the most demanding conditions

The TXVR Isolated electronic voltage regulator provides the cleanest power in the most demanding conditions. The galvanic isolation transformer prevents common mode noise while voltage variations are eliminated by the electronic voltage regulator.

TXVR applications include laboratory, scientific, industrial, and any critical installation with voltage fluctuations and grounding or noise issues. TXVR provides dual output voltages and optional configurable PDU to meet a wide range of receptacle requirements.

For isolated online UPS systems, reference [www.xpcc.com/tx91-3-10k](http://www.xpcc.com/tx91-3-10k)

### PRODUCT SNAPSHOT

- › Available models: 3.8kVA/3.8kW, 5kVA/5kW, 6kVA/6kW, 10kVA/10kW
- › Regulates utility voltage variations to within  $\pm 1\%$  without batteries
- › Eliminates surges, spikes and noise
- › UL1778, cUL, FCC Class A, RoHS, TAA compliant
- › 3 year warranty (USA and Canada)

### FEATURES

#### Electronic Voltage Regulation

TXVR maintains output voltage at  $\pm 1\%$  with input variations of  $-45\%$  to  $+45\%$

**Surge voltage withstand capability**—ANSI/IEEE C62.41 Category A & B, 6kV/200 & 500A, 100kHz ringwave

**Galvanic isolation transformer**—eliminates common mode noise and the need to install expensive dedicated circuits and provides power conditioning during normal and bypass operation

**Static switch**—automatically transfers output from inverter to the isolated bypass source in the event of an overload or fault

#### Surge voltage let-through (max)

$< 10V$  normal mode (L-N),  $< 0.5V$  common mode (N-G) when subjected to 6kV ANSI/IEEE C62.41 Cat. A

**LCD display**—monitor vital and precise status and alarm information

**Upgradable to UPS**—TXVR is upgradable to UPS by upgrading firmware and adding battery cabinets.

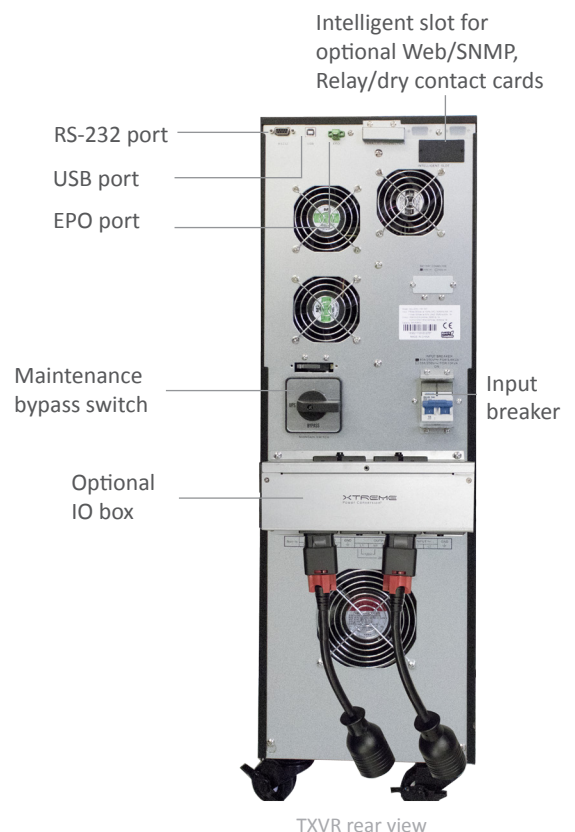
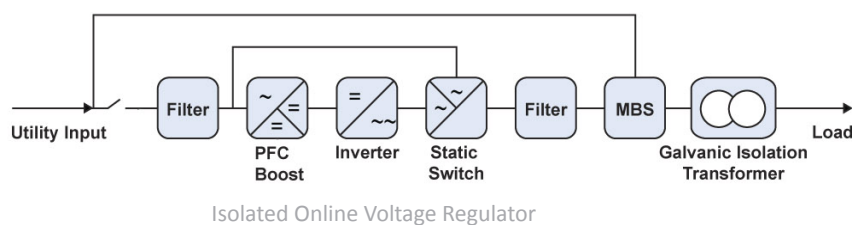
**Maintenance bypass**—manually transfer critical loads from inverter power to utility power, enabling TXVR maintenance

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/txvr](http://www.xpcc.com/txvr)

MODEL NUMBER		TXVR-3.8K	TXVR-5K	TXVR-6K	TXVR-10K
CAPACITY	Power rating	3.8kVA/3.8kW	5kVA/5kW	6kVA/6kW	10kVA/10kW
INPUT	Voltage (nominal)	208/220/230/240VAC			
	Voltage range	110-300VAC*			
	Frequency	46–54Hz or 56–64Hz			
OUTPUT	Voltage	208VAC, 240/120VAC or 230/115VAC			
	Voltage Regulation	± 1%			
	Frequency	50Hz ± 0.1Hz or 60 Hz ± 0.1Hz			
	Overload capacity	110% 10 min; 130% 1 min; >130% 1 sec			
	Efficiency	up to 97% ECO mode, 91% online mode			
	Harmonic Distortion	<2% @ 100% linear load (regardless of input distortion)			
PHYSICAL	Input/output	Terminal blocks or optional PDU			
	Dimensions (W x D x H)	9.8 x 23.2 x 32.4 in			
	Weight	142 lbs	145 lbs	148 lbs	187 lbs
OPTIONAL PDU	Input connection	Terminal Block with 6ft L6-30P**			Terminal Block
	120V receptacle options	5-15/20R			
	240V receptacle options	L6-30R, L6-20R, 6-15/20R, C19			
ENVIRONMENT	Temperature	32–104°F (0–40°C)			
	Audible noise	< 50dBA			
	Altitude	11,500 ft above sea level			
APPROVALS		UL1778, cUL, FCC Class A, RoHS, TAA compliant			
WARRANTY		3 years electronics (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)			
INCLUDED IN BOX		User manual, RS-232 communication cable, ViewPower Software CD			
AVAILABLE OPTIONS		5 year extended warranty, output PDU, input L6-30P cord (for 3.8kVA, 5kVA, 6kVA)			

\*Depending on load level. \*\*6kVA system capacity will be reduced by 30A input circuit



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. TXVR.03U (1/15/20)

# XTREME POWER CONVERSION E91 10kW, 15kW & 20kW

Online Tower UPS // 208/120VAC Three-Phase

For more information, visit  
[www.xpcc.com/e91\\_10-20k](http://www.xpcc.com/e91_10-20k)



## Unity power factor three-phase UPS for Edge facilities and other critical IT applications

E91 UPS provides reliable three phase double conversion power for edge facilities, small data centers, network closets, and industrial applications.

E91 features unity output power factor to support up to 25% more critical loads than typical UPSs. E91's touch screen LCD allows vital monitoring with interactive power one-line, alarms and UPS status. External battery packs are available for longer runtimes.

For higher capacity options,  
reference the E91-30/40kVA at  
[www.xpcc.com/E91-30-40kVA](http://www.xpcc.com/E91-30-40kVA)

### PRODUCT SNAPSHOT

- › Available models: 10kW, 15kW, 20kW
- › Unity power factor
- › Approvals: UL, cUL, FCC, Energy Star 2.0
- › 2 years electronics, 2 years battery warranty (USA and Canada)

### FEATURES

**Touch LCD Display**—4.3" touch display provides vital information including status and alarms

**High Overload Capability** — E91 provides protection during momentary overloads

**Unity output power factor** — E91 systems provide more real capacity for high density loads

**Energy Star** — 10, 15, and 20kW Models meet Energy Star 2.0

**Parallel Operation** — up to three UPS can be operated in parallel.

**Frequency converter** — lock output at 50Hz/60Hz

**Efficient Operation**— operation at up to 94% in double conversion mode or 98% in ECO mode

**Dual or single inputs** — E91 includes separate rectifier and bypass inputs. Input jumpers are pre-installed.

**Maintenance bypass**— manually transfer critical loads from UPS power to utility power, enabling E91 maintenance

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/e91\\_10-20k](http://www.xpcc.com/e91_10-20k)

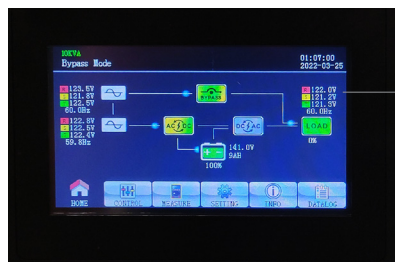
MODEL NUMBER		E91-10K	E91-15K	E91-20K
CAPACITY	Power rating	10kVA/10kW	15kVA/15kW	20kVA/20kW
INPUT	Voltage / Range	208Y/120VAC or 220Y/127 +20/-15% VAC three-phase		
	Frequency	46–54Hz or 56-64Hz		
OUTPUT	Voltage / Frequency	208/120VAC or 220/127VAC / 50/60±0.1%		
	Overload capacity	Up to 110% for 1 hour, 130% for 1 min, >130% for 1 sec		
	Efficiency	up to 94% online mode or 98% ECO mode		
INTERNAL BATTERY	Battery type	Sealed maintenance-lead acid		
	Battery quantity	(40) 12V/9AH	(60) 12V/9AH	
	Max charging adjustable	Up to 12A adjustable		
PHYSICAL	Dimensions (W x D x H)	9.9" x 26.3" x 32.3"	11.9" x 34" x 40.2"	
	Weight	315 lbs	504 lbs	510 lbs
OPTIONAL BATTERY PACK	Model	EBP09-2 / EBP09-5		
	Battery quantity and size	(40) 12V 9AH / (100) 12V 9AH		
	Weight	310 lbs / 670 lbs		
	Dimensions (W x D x H)	11.9" x 34" x 40.2"		
OPTIONAL PDU	Model	E91-PDU1	E91-PDU2	
	Output receptacles	(4) L21-20R each protected by a 20A breaker	(4) L21-30R each protected by a 30A breaker	
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)*		
	Audible noise	<60dB for 10kVA; <65dB		
	Altitude	5,200 ft above sea level*		
APPROVALS		UL, cUL, FCC. 10, 15, & 20kW are Energy Star 2.0		
WARRANTY		2 years warranty (USA and Canada)		
COMMUNICATIONS INTERFACE		RS-232, EPO, USB, intelligent slot for optional cards (Web/SNMP, Relay/dry contact)		
INCLUDED IN BOX		User manual, RS-232 communication cable, USB cable		
AVAILABLE OPTIONS		External maintenance bypass, output distribution, external battery cabinets		

\*Battery life is reduced above 30°C, UPS capacity derates above 40°C and 5,200 ft above sea level.

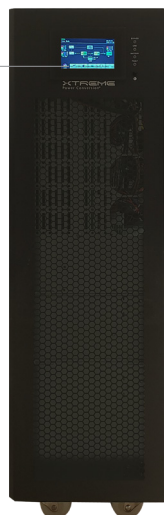
## BATTERY RUNTIMES

Percentage load:	UPS Internal Batteries				UPS + EBP09-2				UPS + EBP09-5			
	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
E91-10K	69	28	16	11	152	69	41	28	298	130	86	58
E91-15K	69	28	16	11	125	54	32	22	215	98	59	41
E91-20K	47	19	11	7	93	37	22	15	152	69	41	28

Runtimes are shown in minutes and will vary based on battery age and site conditions.



4.3" touch display



E91-15/20kVA front view



E91-15/20kVA rear view

Input breaker  
Output breaker

Maintenance bypass switch

Optional PDU with (4) L21-20R & (4) 3P 20A breakers

**XPC TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2022 Xtreme Power Conversion Corporation. All Rights Reserved. E91-10-20.01U (Rev 7/18/22)

# XTREME POWER CONVERSION E91 30kW & 40kW

Online Tower UPS // 208/120VAC Three-Phase

For more information, visit  
[www.xpcc.com/e91\\_30-40k](http://www.xpcc.com/e91_30-40k)



## Unity power factor three-phase UPS for Edge facilities and other critical IT applications

E91 UPS provides reliable three phase double conversion power for edge facilities, small data centers, network closets, and industrial applications.

E91 features unity output power factor to support up to 25% more critical loads than typical UPSs. E91's touch screen LCD allows vital monitoring with interactive power one-line, alarms and UPS status. External battery packs are available for longer runtimes.

For smaller capacity options, reference the E91 10-20kW at [www.xpcc.com/E91\\_10-20k](http://www.xpcc.com/E91_10-20k)

### PRODUCT SNAPSHOT

- › Available models: 30kW, 40kW
- › Rear clearance not required
- › Unity power factor
- › Approvals: UL, cUL, FCC
- › 2 years electronics, 2 years battery warranty (USA and Canada)

### FEATURES

**Touch LCD** —4.3" touch display provides vital information including status and alarms

**Unity power factor** —E91 systems provide more real capacity for high density loads

**Saves floor space** —E91 30kW and 40kW UPS can be installed against the wall, no rear service clearance is required

**Parallel operation**—up to three UPS can be operated in parallel

**Efficient operation**—operation at up to 94% in double conversion mode or 98% in ECO mode

**Dual or single inputs** —E91 includes separate rectifier and bypass inputs. Input jumpers are pre-installed.

**Maintenance bypass**—front bypass switch allows loads to be transferred from UPS power to utility power, enabling E91 maintenance

**Frequency converter**—lock output at 50Hz/60Hz

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/e91\\_30-40k](http://www.xpcc.com/e91_30-40k)

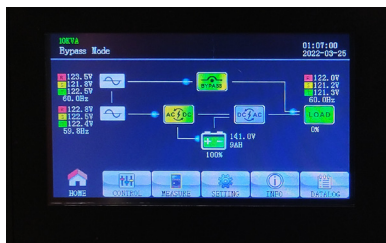
MODEL NUMBER		E91-30K	E91-40K
CAPACITY	Power rating	30kVA/30kW	40kVA/40kW
INPUT	Voltage / Range	208Y/120VAC or 220Y/127 +20/-15% VAC three-phase	
	Frequency	46–54Hz or 56-64Hz	
OUTPUT	Voltage / Frequency	208/120VAC or 220/127VAC / 50/60±0.1%	
	Overload capacity	150% for 1 min, 125% for 10 min, 110% for 60 min	
	Efficiency	up to 94% online mode or 98% ECO mode	
INTERNAL BATTERY	Battery type	Sealed maintenance-lead acid	
	Battery quantity	(60) 12V/580W	(80) 12V/580W
	Max charging adjustable	8A	
PHYSICAL	Dimensions (W x D x H)	23.6" x 36.3" x 65.6"	
	Weight	690 lbs	831 lbs
OPTIONAL BATTERY PACK	Model	EBP10-5	
	Battery quantity and size	(100) 12V 580W	
	Weight	770 lbs	
	Dimensions (W x D x H)	11.9" x 34" x 40.2"	
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)*	
	Audible noise	<60dB for 10kVA; <65dB for 15/20/30/40	
	Altitude	5,200 ft above sea level*	
APPROVALS		UL, cUL, FCC	
WARRANTY		2 years warranty (USA and Canada)	
COMMUNICATIONS INTERFACE		RS-232, EPO, USB, intelligent slot for optional cards (Web/SNMP, Relay/dry contact)	
INCLUDED IN BOX		User manual, RS-232 communication cable, USB cable	
AVAILABLE OPTIONS		External maintenance bypass, output distribution, external battery cabinets	

\*Battery life is reduced above 30°C, UPS capacity derates above 40°C and 5,200 ft above sea level.

## BATTERY RUNTIMES

Percentage load:	UPS Internal Batteries				EBP10-5			
	25%	50%	75%	100%	25%	50%	75%	100%
E91-30K	37	16	9	6	116	52	32	23
E91-40K	37	16	9	6	98	43	26	18

Runtimes are shown in minutes and will vary based on battery age and site conditions.



4.3" touch display

Internal Battery Switch

Output Terminal Blocks

Wire access from cabinet rear



E91-40K front view  
(door & panels removed)

Input, Output & Maintenance Bypass Breakers

External Battery Terminal Blocks

Main input & bypass input terminal blocks

Internal battery modules



E91-40K rear view

Top or bottom cable entry from rear. Terminations in the front

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2022 Xtreme Power Conversion Corporation. All Rights Reserved. E91-30-40.01U (Rev 7/18/22))

# XTREME POWER CONVERSION M90U

Unity PF Modular Online UPS // 208/120VAC Three-Phase

For more information, visit [www.xpcc.com/m90u](http://www.xpcc.com/m90u)



## Mission critical availability with scalable, modular unity power factor output

The M90U is a scalable modular online double conversion UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

M90U can be configured with a fully redundant power module and battery modules. Should one module fail, the remaining modules smoothly take over the load. The power modules are independent and can be hot swapped without risk to the critical load.

For capacities up to 80kVA reference [www.xpcc.com/m90u-80](http://www.xpcc.com/m90u-80)

### PRODUCT SNAPSHOT

- › Capacities: 15kVA/15kW, 20kVA/20kW, 30kVA/30kW, 40kVA/40kW, 45kVA/45kW, 60kVA /60kW
- › Hot swappable power modules
- › Up to 94% online mode or 98% ECO mode
- › UL-1778, cUL, FCC A, RoHS, TAA (select models)
- › 2 year electronics, 2 year battery warranty (USA and Canada)

### FEATURES

**Unity output power factor—** M90U systems provide more real capacity for high density loads

**Scalable—**when power and runtime requirements change M90U modularity makes it easy to add modules and increase capacity

**Highest availability—** system can be configured with redundant power and battery modules

**Reduce energy cost—**best-in-class energy efficiency provides lowest energy consumption and heat output

**Dual or single utility input—** provides maximum installation flexibility

**Maintenance bypass—** manually transfer critical loads from UPS power to utility power, enabling M90 maintenance

**Large LCD display—**5.7" display provides graphic display including status and alarms

**Mounting—** Standard Floor Mount Brackets included. Seismic Hold Down Anchorage available

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90u](http://www.xpcc.com/m90u)

MODEL NUMBER		M90U-15	M90U-30	M90U-45	M90U-20	M90U-40	M90U-60
CAPACITY	Power rating	15kVA/15kW	30kVA/30kW	45kVA/45kW	20kVA/20kW	40kVA/40kW	60kVA/60kW
	Enclosure capacity: power modules	Up to 45kVA (3 x 15kVA)			Up to 60kVA (3 x 20kVA)		
	Enclosure capacity: battery modules	Up to 12 internal battery modules					
INPUT	Voltage / frequency nominal	208Y/120V three-phase, 50/60Hz auto-sensing					
	Voltage / frequency range	121–253VAC* (L-L), 40–70Hz					
OUTPUT	Voltage / Frequency	208Y/120V three-phase, 50/60Hz ± 0.5Hz					
	THD (full load)	< 2%					
	Efficiency	Up to 94% online mode or 98% ECO mode					
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms					
BATTERY SYSTEM	Nominal voltage	± 120V					
	Charge Current (programmable)	8A	16A	24A	8A	16A	24A
DIMENSIONS & WEIGHT	Enclosure	20.3"W x 39.4"D x 54"H / 484 lbs					
	Power module	19.0"W x 28.0"D x 5.1"H / 74 lbs (20kVA) / 72 lbs (15kVA)					
	Battery module	4.1"W x 28.3"D x 6.0"H / 68 lbs					
ENVIRONMENT	Temperature	0–40°C (32–104°F)**					
	Altitude	5,200 ft above sea level**					
	Audible noise	< 65dBA at 1m					
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA (select models)					
WARRANTY		2 years (USA and Canada)					
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Modbus), optional relay card					
INCLUDED IN BOX		User manual, RS-232 cable, Ramp for unloading UPS enclosure, Floor Mount Brackets					
AVAILABLE OPTIONS		External maintenance bypass, 480V input transformer, battery temperature sensor, seismic hold down anchorage					

\*Depending on load level \*\*Battery life is reduced above 30°C, UPS capacity derates above 30°C and 5,200 ft above sea level

## BATTERY RUNTIMES

System Load (kW)	5	10	15	20	25	30	35	40	45	50	55	60
2 battery modules	16	6	-	-	-	-	-	-	-	-	-	-
4 battery modules	37	16	9	6	-	-	-	-	-	-	-	-
6 battery modules	60	26	16	11	8	6	-	-	-	-	-	-
8 battery modules	85	37	23	16	12	9	8	6	5	-	-	-
10 battery modules	110	48	30	21	16	13	10	9	7	6	5	4
12 battery modules	127	60	37	26	20	16	13	11	9	8	7	6

Runtimes are shown in minutes and will vary based on battery age and site conditions. Runtimes are based on fully formed batteries.

**LCD Display**  
5.7" display provides graphic display including status and alarms

**UPS Power Module**  
20kVA/20kW or 15kVA/15kW

**Battery Module**  
removable battery pack trays

**Maintenance Bypass**  
full wrap around maintenance bypass with static switch interface


**STS & Control**  
includes control, power and communication circuits, static transfer switch and fuses

**Cable Entry**  
cable entry for M90U is on rear, side or bottom

**Cabinet Skirt**  
optional cabinet skirt covers wheels and leveling feet

M90U front view (door removed)

M90U rear view



Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2021 Xtreme Power Conversion Corporation. All Rights Reserved. M91.01U (3/31/21)

# XTREME POWER CONVERSION M90LU

Unity PF Modular Online UPS // 208/120VAC Three-Phase

For more information, visit [www.xpcc.com/m90lu](http://www.xpcc.com/m90lu)



## Mission critical availability requiring long battery runtimes

The M90LU is a scalable modular online double conversion UPS designed for critical loads requiring very long battery run-times.

M90LU can be configured with a fully redundant power modules. Should one module fail, the remaining modules smoothly take over the load. The power modules are independent and can be hot swapped without risk to the critical load.

For M90 with internal batteries reference  
[www.xpcc.com/m90](http://www.xpcc.com/m90)

### PRODUCT SNAPSHOT

- › Capacities: 15kVA/15kW, 20kVA/20kW, 30kVA/30kW, 40kVA/40kW, 45kVA/45kW, 60kVA /60kW
- › Hot swappable power modules
- › Up to 94% online mode or 98% ECO mode
- › UL-1778, cUL, FCC A, RoHS, TAA Compliant (select models)
- › 2 years UPS warranty (USA and Canada)

### FEATURES

**Unity output power factor**—M90LU systems provide more real capacity for high density loads

**Scalable**—when power requirements change M91L modularity makes it easy to add modules and increase capacity

**Highest availability**—system can be configured with redundant power modules

**Reduce energy cost**—best-in-class energy efficiency provides lowest energy consumption and heat output

**Dual or single utility input**—provides maximum installation flexibility

**Maintenance bypass**—manually transfer critical loads from UPS power to utility power, enabling M90LU maintenance

**Large LCD display**—5.7" display provides graphic display including status and alarms

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90lu](http://www.xpcc.com/m90lu)

MODEL NUMBER		M90LU-15	M90LU-30	M90LU-45	M90LU-20	M90LU-40	M90LU-60
CAPACITY	Power Rating	15kVA/15kW	30kVA/30kW	45kVA/45kW	20kVA/20kW	40kVA/40kW	60kVA/60kW
	Enclosure capacity: power modules	Up to 45kVA (3 x 15kVA)			Up to 60kVA (3 x 20kVA)		
INPUT	Voltage/frequency nominal	208Y/120V three-phase, 50/60Hz auto-sensing					
	Voltage/frequency range	121–253VAC* (L-L), 40–70Hz					
OUTPUT	Voltage / Frequency	208Y/120V three-phase, 50/60Hz ± 0.5Hz					
	THD (full load)	< 2%					
	Efficiency	Up to 94% online mode or 98% ECO mode					
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms					
DIMENSIONS & WEIGHT	Enclosure	20.3"W x 39.4"D x 30"H / 227 lbs					
	Power module	19.0"W x 28.0"D x 5.1"H / 74 lbs					
M90-BC BATTERY SYSTEM	Charge current (max)	8A	16A	24A	8A	16A	24A
	Dimensions & weight	23.6"W x 43.3"D x 79.1"H / 735 lbs + 85 lbs per module					
	Hot Swappable battery modules	Up to 8 strings with individual breakers (4 per string)					
ENVIRONMENT	Temperature	0–40°C (32–104°F)**					
	Altitude	5,200 ft above sea level**					
	Audible Noise	< 65dBA at 1m					
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA (select models)					
WARRANTY (UPS)		2 years UPS (USA and Canada)					
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Modbus), optional relay card					
INCLUDED IN BOX		User manual, RS-232 cable, ramp for unloading UPS enclosure					
AVAILABLE OPTIONS		External maintenance bypass, 480V input transformer, output distribution, external battery pack, battery temperature sensor					

\*Depending on load level \*\*Battery life is reduced above 30°C, UPS capacity derates above 30°C and 5,200 ft above sea level

## M90-BC BATTERY RUNTIMES

System Load (kW)	5	10	15	20	25	30	35	40	45	50	55	60
4 battery modules	40	16	10	5	-	-	-	-	-	-	-	-
8 battery modules	97	40	24	16	13	10	7	5	-	-	-	-
12 battery modules	154	67	40	28	21	16	14	12	10	8	7	5
16 battery modules	216	97	58	40	30	24	20	16	15	13	11	10
20 battery modules	283	126	77	53	40	32	26	22	19	16	15	13
24 battery modules	346	154	97	67	50	40	33	28	24	21	18	16
28 battery modules	410	185	118	82	61	49	40	34	29	25	22	20
32 battery modules	475	216	134	97	73	58	47	40	32	30	27	24

Runtimes are shown in minutes and will vary based on battery age and site conditions. For longer runtimes please contact [sales@xpcc.com](mailto:sales@xpcc.com)

### Maintenance Bypass

full wrap around maintenance bypass with static switch interface

### Cable Entry

cable entry for M90LU is on rear, side or bottom



M90LU rear view

### Up to 8 Battery Strings

Strings each protected with 100A breaker

### Battery Module

hot swappable module

### UPS Power Module

20kVA/20kW or 15kVA/15kW



M90LU (door removed)

M90-BC

**XTREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2021 Xtreme Power Conversion Corporation. All Rights Reserved. M91L.01U (3/21/19)

# XTREME POWER CONVERSION M90U-80

Unity PF Modular Online UPS // 208/120VAC Three-Phase

For more information, visit [www.xpcc.com/m90u-80](http://www.xpcc.com/m90u-80)



## Scalable, modular UPS for mission critical availability

The M90U-80 is a scalable modular online double conversion UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

M90U-80 can be configured with a fully redundant power module and battery modules. Should one module fail, the remaining modules smoothly take over the load. The power modules are independent and can be hot swapped without risk to the critical load.

For capacities up to 140kVA N+1 reference  
[www.xpcc.com/m90u-140](http://www.xpcc.com/m90u-140)

### PRODUCT SNAPSHOT

- › Capacities: 15kVA/15kW, 20kVA/20kW, 30kVA/30kW, 40kVA/40kW, 45kVA/45kW, 60kVA/60kW, 80kVA/80kW
- › Hot swappable power and battery modules
- › UL-1778, cUL, FCC A, RoHS, TAA (select models)
- › 2 year electronics, 2 year battery warranty (USA and Canada)

### FEATURES

#### Unity output power factor—

M90U-80 systems provide more real capacity for high density loads

**Scalable**—when power or runtime requirements change M90U-80 modularity makes it easy to add modules and increase capacity

**Power module ratings**—15kVA/15kW or 20kVA/20kW modules available

**Modular static switch**—for easier maintenance

#### Maintenance bypass—

front mounted MBP switch transfers critical loads from UPS power to utility power, enabling maintenance

**Large Touchscreen LCD display**—10" display provides graphic display including status and alarms

**Dual or single utility input**—provides maximum installation flexibility

# MODEL SELECTION GUIDE

MODEL NUMBER		M90U80-20k	M90U80-40k	M90U80-60k	M90U80-80k
CAPACITY	Power rating	20kVA/20kW	40kVA/40kW	60kVA/60kW	80kVA/80kW
	Enclosure capacity: power modules	Up to 80KVA (4 x 20KVA) or up to 60kVA (4 x 15KVA)			
	Enclosure capacity: battery modules	4, 8, 12, or 16 internal battery modules			
INPUT	Voltage / frequency nominal	208/120V, 50/60Hz auto-sensing			
	Voltage / frequency range	121-253VAC* (L-L), 40-70Hz			
OUTPUT	Voltage	208/120V			
	Frequency	50/60Hz $\pm$ 0.5Hz			
	THD (full load)	< 2%			
	Efficiency	Up to 94% online mode or 98% ECO mode			
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms			
BATTERY SYSTEM	Nominal voltage	$\pm$ 120V			
	Charge Current (programable)	8A	16A	24A	32A
DIMENSIONS & WEIGHT	Enclosure	23.6"W x 43.3"D x 79.1"H / 657 lbs			
	Power module	19.5"W x 29.5"D x 5.5"H / 74 lbs			
	Battery module	4.3"W x 28.5"D x 6.5"H / 70 lbs			
ENVIRONMENT	Temperature	0-40°C (32-104°F)**			
	Altitude	5,200 ft above sea level**			
	Audible noise (typical)	< 69dBA at 1m			
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA (select models)			
WARRANTY		2 years (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Modbus), optional relay card			
INCLUDED IN BOX		User manual, RS-232 cable, unloading ramp, ViewPower Software			
AVAILABLE OPTIONS		External maintenance bypass, 480V input transformer, output distribution, battery temperature sensor			

\*Depending on load level \*\*Battery life is reduced above 30°C, UPS capacity derates above 30°C and 5,200 ft above sea level.

## INTERNAL BATTERY RUNTIMES

System Load (kVA)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
4 battery modules	37	16	9	6	-	-	-	-	-	-	-	-	-	-	-	-
8 battery modules	85	37	23	16	12	9	8	6	7	-	-	-	-	-	-	-
12 battery modules	127	60	37	26	20	16	13	11	11	8	7	6	-	-	-	-
16 battery modules	169	85	52	37	28	23	19	16	16	12	10	9	8	7.5	7	6

Runtimes are shown in minutes and will vary based on battery age and site conditions. Runtimes are based on fully formed batteries. For extended runtimes, reference [www.xpcc.com/selector](http://www.xpcc.com/selector) or contact [sales@xpcc.com](mailto:sales@xpcc.com).


**Maintenance Bypass**  
front mounted MBP switch transfers critical loads from UPS power to utility power, enabling maintenance

**20kVA or 15kVA Power Module**  
up to 4 modules for up to 80kVA capacity or 60kVA N+1


**Top Feed Cable Entry**  
provides easy installation access

**STS Module**  
static switch with redundant power supplies

**Battery Module**  
up to 16 hot swappable battery modules



M90U-80 front view  
(door removed)



M90U-80 front view  
(door closed)

**10" LCD Display**

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. M90-80.01U 1/29/20

# XTREME POWER CONVERSION M90U-140

Unity PF Modular Online UPS // 208/120VAC Three Phase

For more information, visit [www.xpcc.com/m90u-140](http://www.xpcc.com/m90u-140)



## Scalable, modular UPS for mission critical availability

The M90U-140 is a scalable modular online double conversion UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

M90U-140 can be configured with a fully redundant power module and battery modules. Should one module fail, the remaining modules smoothly take over the load. The power modules are independent and can be hot swapped without risk to the critical load.

For modular configurations up to 80kVA also reference [www.xpcc.com/m90u-80](http://www.xpcc.com/m90u-80)

### PRODUCT SNAPSHOT

- › Capacities: 15kVA, 20kVA, 30kVA, 40kVA, 45kVA, 60kVA, 75kVA, 80kVA, 90kVA, 100kVA, 105kVA, 120kVA, 140kVA
- › Hot swappable power and battery modules
- › UL-1778, cUL, FCC A, RoHS, TAA (select models)
- › 2 year electronics, 2 year battery warranty (USA and Canada)

### FEATURES

**Unity output power factor—** M90-140U systems provide more real capacity for high density loads

**Scalable—**when power and runtime requirements change M90U-140 modularity makes it easy to add modules and increase capacity

**Power module ratings—** 15kW or 20kW modules available

**Modular static switch—** for easier maintenance

**Maintenance bypass—** front mounted MBP switch transfers critical loads from UPS power to utility power, enabling maintenance

**Large Touchscreen LCD display—** 10" display provides graphic display including status and alarms

**Dual or single utility input—** provides maximum installation flexibility

# MODEL SELECTION GUIDE

MODEL NUMBER		M90U140-20k	M90U140-40k	M90U140-60k	M90U140-80k	M90U140-100k	M90U140-120k	M90U140-140k
CAPACITY	Power rating	20kVA/20kW	40kVA/40kW	60kVA/60kW	80kVA/80kW	100kVA/100kW	120kVA/120kW	140kVA/140kW
	Power modules	Up to 140KVA N+1 (8 x 20KVA) or up to 105kVA N+1 (8 x 15KVA)						
INPUT	Voltage nominal	208/120V						
	Frequency nominal	50/60Hz auto-sensing						
	Voltage range	121–253VAC* (L-L)						
	Frequency range	40–70Hz						
OUTPUT	Voltage	208/120V						
	Frequency	50/60Hz ± 0.5Hz						
	THD (full load)	< 2%						
	Efficiency	Up to 94% online mode or 98% ECO mode						
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms						
UPS PHYSICAL	Dimensions & weight	23.6"W x 43.3"D x 79.1"H / 657 lbs + 74 lbs per module						
ENVIRONMENT	Temperature	0–40°C (32–104°F)**						
	Altitude	5,200 ft above sea level**						
	Audible noise (typical)	< 69dBA at 1m						
BATTERY ENCLOSURE	Charge current (max)	8A	16A	24A	32A	40A	48A	56A
	Dimensions & weight	23.6"W x 43.3"D x 79.1"H / 735 lbs + 85 lbs per module						
	Hot Swappable battery modules (4 per string)	Up to 8 strings with individual breakers						
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA (select models)						
WARRANTY		2 years (USA and Canada)						
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Modbus), optional relay card						
INCLUDED IN BOX		User manual, RS-232 cable, unloading ramp, ViewPower Software						
AVAILABLE OPTIONS		External maintenance bypass, 480V input transformer						

\*Depending on load level \*\*Battery life is reduced above 30°C, UPS capacity derates above 30°C and 5,200 ft above sea level

## BATTERY RUNTIMES


System Load (kVA)	10	20	30	40	50	60	70	80	90	100	110	120	130	140
4 battery modules	16	5	-	-	-	-	-	-	-	-	-	-	-	-
8 battery modules	40	16	10	5	-	-	-	-	-	-	-	-	-	-
12 battery modules	67	28	16	12	8	5	-	-	-	-	-	-	-	-
16 battery modules	97	40	24	16	13	10	7	5	-	-	-	-	-	-
20 battery modules	126	53	32	22	16	13	11	9	7	5	-	-	-	-
24 battery modules	154	67	40	28	21	16	14	12	10	8	6.7	5	-	-
28 battery modules	185	82	49	34	25	20	16	14	12	10	9	7.6	6.5	5
32 battery modules	216	97	58	40	30	24	20	16	15	13	11	9.6	8.4	7.3

Runtimes are shown in minutes and will vary based on battery age and site conditions. For longer runtimes please contact [sales@xpcc.com](mailto:sales@xpcc.com)

**Maintenance bypass**  
front mounted MBP switch transfers critical loads from UPS power to utility power, enabling maintenance

**Up to 8 Battery Strings**  
Strings each protected with 100A breaker

**Battery Module**  
hot swappable module



M90-140 front view

**Top Feed Cable Entry**  
provides easy installation access

**10" Touch LCD Display**

**STS Module**  
static switch with redundant power supplies

**20kW or 15kW Power Module**  
up to 8 modules for up to 140kVA capacity or 120kVA N+1

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. M90-140.01U (4/14/20)

# XTREME POWER CONVERSION X90-2S

2 Slot Modular Online UPS // 480VAC 3W Three-Phase 50kW-140kW

For more information, visit [www.xpcc.com/x90-2s](http://www.xpcc.com/x90-2s)



## Scalable, Modular, Compact 480V UPS

The X90-2S is a scalable modular online double conversion UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

The fully integrated X90-2S UPS includes maintenance bypass and batteries (up to 100kW) in single cabinet providing the most compact footprint and simplifying installation.

For 208/120VAC 3 phase UPS, reference the M90-80 [www.xpcc.com/m90-80](http://www.xpcc.com/m90-80) & M90-140 [www.xpcc.com/m90-140](http://www.xpcc.com/m90-140)

### PRODUCT SNAPSHOT

- › Capacities: 50kW, 70kW, 100kW, 140kW
- › 65kAIC rating
- › Hot swappable power and battery modules
- › UL-1778 , cUL, FCC A, RoHS, TAA
- › 2 year warranty (USA and Canada)

### FEATURES

**Highest availability—** system can be configured with redundant power and battery modules

**Reduce energy cost—** online efficiency up to 96.5% and ECO mode up to 99%

**Power module ratings—** 50kW or 70kW modules available

**Internal Batteries—** internal batteries provide up to 6 minutes at 100kW load

**Full front access—** no rear clearance required for maintenance

**Maintenance bypass—** integral front bypass enables maintenance and repair

**Large Touchscreen LCD display—** 10" display provides graphic display including status and alarms

**Dual or single utility input—** provides maximum installation flexibility

**Cable Access —** top cable access is standard. Optional 6" side car kit is available for bottom entry

# MODEL SELECTION GUIDE

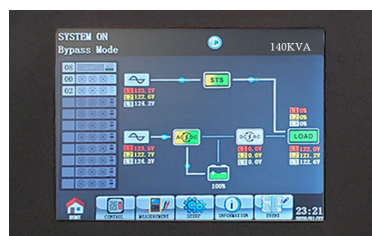
For more information, visit [www.xpcc.com/x90-2s](http://www.xpcc.com/x90-2s)

MODEL NUMBER		X90-2S50k	X90-2S70k	X90-2S100k	X90-2S140k
CAPACITY	Power rating	50kVA/50kW	70kVA/70kW	100kVA/100kW	140kVA/140kW
CABINET	X90-2S UPS: power modules	Up to 140kW (2 x 70kW) or up to 100kVA (2 x 50kW)			
	X90-2S UPS: battery modules	4, 8, 12, 16 or 20 battery modules			
	X90-BC: battery modules	Up to 36 additional battery modules			
INPUT	Voltage/frequency nominal	480VAC (3W), 50/60Hz auto-sensing			
	Voltage/frequency range	480VAC or +20/-20% VAC three-phase, 40-70Hz			
OUTPUT	Voltage/frequency range	480VAC (3W), 50/60Hz auto-sensing			
	Efficiency	Up to 96.5% online mode or 99% ECO mode			
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms			
BATTERY SYSTEM	Nominal voltage	+/-240VDC			
	Charge Current (programable)	18A	18A	36A	36A
DIMENSIONS & WEIGHTS	UPS & battery cabinet (W x D x H)	23.6 x 42 x 79 in / 357 lbs (UPS) / 23.6 x 42 x 79 in 878 lbs (BC)			
	Power & battery module (W x D x H)	4.2 x 28 x 6 in / 104 lbs (PM) 17.2 x 29.5 x 5.25 in / 70 lbs (BM)			
ENVIRONMENT	Temperature	0-40°C (32-104°F)			
	Altitude	5,200 ft above sea level			
	Audible noise (typical)	< 69dBA at 1m			
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA			
WARRANTY		2 years (USA and Canada)			
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Relay, Modbus)			
INCLUDED IN BOX		User manual, RS-232 cable, unloading ramp, ViewPower Software			
AVAILABLE OPTIONS		External maintenance bypass, battery temperature sensor, side car kit for bottom cable access (increases width by 6")			

## BATTERY RUNTIMES

	X90-2S UPS				X90-2S UPS + X90-BC								
Battery Modules	8	12	16	20	24	28	32	36	40	44	48	52	56
30kW	9	15	21	27	34	41	48	56	63	71	79	87	95
50kW	-	7	11	15	18	22	26	30	34	38	43	47	52
70kW	-	-	7	10	12	15	17	20	23	26	28	31	35
80kW	-	-	6	8	10	13	15	17	19	22	24	27	29
100kW	-	-	-	6	7	9	11	13	15	17	18	20	22
140kW	-	-	-	-	-	6	7	8	10	11	12	14	15

Runtimes are shown in minutes and will vary based on battery age and site conditions.



Touch LCD Display

**65kAIC Breakers**  
Input, output & maintenance bypass

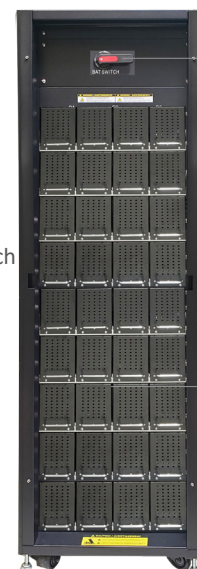
**Battery Module**  
includes 10 pieces of 12V 580W batteries



X90-2S 100kW UPS  
(door removed)

**Battery Switch**

**Power Module**  
50kW or 70kW each



X90-BC Battery  
Cabinet

**Battery Breaker**

**Battery Enclosure**  
Includes slots for up to 36 battery modules

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

XPC EMEA / Rotterdam, NL / emea@xpcc.com

[www.xpcc.com](http://www.xpcc.com)

©2022 Xtreme Power Conversion Corporation. All Rights Reserved. X90-2S (Rev 6/14/22)

# XTREME POWER CONVERSION X90-5S

5 Slot Modular Online UPS // 480VAC 4W Three-Phase 50kW-350kW



## Scalable, Modular, Compact 480V UPS

The X90-5S is a scalable modular online double conversion UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

Optional 65kAIC maintenance bypass in slim matching cabinet providing the most compact footprint and reduced installation costs.

Also additional configurations, reference the X90-2S [www.xpcc.com/x90-2s](http://www.xpcc.com/x90-2s) and the X90-10S [www.xpcc.com/x90-10s](http://www.xpcc.com/x90-10s)

### PRODUCT SNAPSHOT

- › Capacities: 50kW, 70kW, 100kW, 140kW, 150kW, 200kW, 210kW, 250kW, 280kW, 350kW
- › 65kAIC Rating
- › Hot swappable power and battery modules
- › UL-1778, cUL, FCC A, RoHS, TAA
- › 2 year warranty (USA and Canada)

### FEATURES

**Highest availability—**  
system can be configured with redundant power and battery modules

**Maintenance bypass—**  
optional slim maintenance bypass enables service and repair

**Reduce energy cost—** online efficiency up to 96.5% and ECO mode up to 99%

**Scalable—**add power or battery modules when requirements change

**Power module ratings—**  
70kW modules available

**Full front access—**  
no rear clearance required for maintenance

**Large Touchscreen LCD display—**10" display provides graphic display including status and alarms

**Dual or single utility input—**  
provides maximum installation flexibility

**Cable Access —**top or bottom cable access

# MODEL SELECTION GUIDE

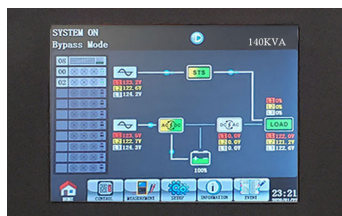
MODEL NUMBER		X90-5S50k	X90-5S70k	X90-5S100k	X90-5S140k	X90-5S150k	X90-5S200k	X90-5S210k	X90-5S250k	X90-5S280k	X90-5S350k
CAPACITY	Power rating	50kW	70kW	100kW	140kW	150kW	200kW	120kW	250kW	280kW	350kW
CABINET	X90-5S UPS: power modules	Up to 350kW (5 x 70kW) or up to 250kVA (5 x 50kW)									
	X90-BC: battery modules	Up to 36 battery modules									
INPUT	Voltage / frequency nominal	480VAC (3W), 50/60Hz auto-sensing									
	Voltage / frequency range	329 – 520VAC (L-L), 40–70Hz									
OUTPUT	Voltage	480VAC (4W)									
	Frequency	40–70Hz									
	Efficiency	Up to 96.5% online mode or 99% ECO mode									
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms									
BATTERY SYSTEM	Nominal voltage	+/-240VDC									
	Charge Current (programmable)	18A		36A		54A		72A		90A	
DIMENSIONS & WEIGHTS	UPS & BC enclosure (W x D x H)	31.5 x 42 x 79 in 787 lbs (UPS) / 23.6 x 42 x 79 in 838 lbs (BC)									
	Bypass enclosure (W x D x H)	11.8 x 42 x 79 in / 400 lbs									
	Power & battery module	17.2 x 31.2 x 5.25 in / 104 lbs (PM) 17.2 x 31.2 x 5.25 in / 73 lbs (BM)									
ENVIRONMENT	Temperature	0–40°C (32–104°F)									
	Altitude	5,200 ft above sea level									
	Audible noise (typical)	< 69dBA at 1m									
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA									
WARRANTY		2 years (USA and Canada)									
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Relay, Modbus)									
INCLUDED IN BOX		User manual, RS-232 cable, unloading ramp, ViewPower Software									
AVAILABLE OPTIONS		External maintenance bypass, battery temperature sensor									

## BATTERY RUNTIMES

Battery Modules	X90-5S + 1*X90-BC						X905S + 2*X90-BC								
	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72
70kW	8	10	13	16	19	22	25	28	31	34	38	41	44	48	51
140kW	-	-	-	6	8	9	10	12	13	15	16	18	19	21	22
180kW	-	-	-	-	5	6	7	8	10	11	12	13	14	15	16
210kW	-	-	-	-	-	-	6	7	8	9	10	10	11	12	13
280kW	-	-	-	-	-	-	-	-	-	5	6	7	8	8.5	9
300kW	-	-	-	-	-	-	-	-	-	-	5	6	7	7.5	8
350kW	-	-	-	-	-	-	-	-	-	-	-	-	5	6	6.5

Runtimes are shown in minutes and will vary based on battery age and site conditions. For longer runtimes or custom battery configurations, please contact [sales@xpcc.com](mailto:sales@xpcc.com)

## Top/Bottom Cable Entry



Touch LCD Display

**65kAIC breakers**  
Main, Maintenance  
Bypass & Output  
Breakers



Maintenance Bypass  
(door removed)



X90-5S 350kW UPS  
(door removed)

**UPS Enclosure**  
Includes slots for  
up to (5) 70kW  
power modules



X90-BC  
(door removed)

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2022 Xtreme Power Conversion Corporation. All Rights Reserved. P915-10.01U (Rev 6/8/22)

# XTREME POWER CONVERSION X90-10S

10 Slot Modular Online UPS // 480VAC 3W Three-Phase 70kW-700kW



## Scalable, Modular, Compact 480V UPS

The X90-10S is a scalable modular online double conversion UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

Optional 65kAIC maintenance bypass in slim matching cabinet providing the most compact footprint and reduced installation costs.

Also additional configurations, reference the X90-2S [www.xpcc.com/x90-2s](http://www.xpcc.com/x90-2s) and the X90-5S [www.xpcc.com/x90-5s](http://www.xpcc.com/x90-5s)

**XTREME**  
Power Conversion®  
Protect your business.

### PRODUCT SNAPSHOT

- › Capacities: 70kW, 140kW, 210kW, 280kW, 350kW, 420kW, 490kW, 560kW, 630kW, 700kW
- › 65kAIC Rating
- › Hot swappable power modules
- › UL-1778, cUL, FCC A, RoHS, TAA
- › 2 year warranty (USA and Canada)

### FEATURES

**Highest availability**— system can be configured with redundant power and battery modules

**Maintenance bypass**— optional slim maintenance bypass enables service and repair

**Reduce energy cost**— online efficiency up to 96.5% and ECO mode up to 99%

**Scalable**—add power or battery modules when requirements change

**Power module ratings**— 70kW modules available

**Full front access**— no rear clearance required for maintenance

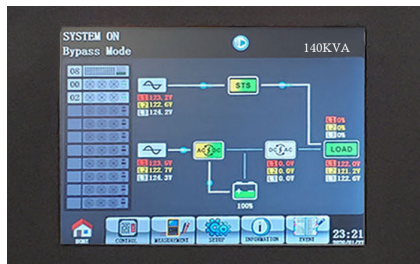
**Large Touchscreen LCD display**—10" display provides graphic display including status and alarms

**Dual or single utility input**— provides maximum installation flexibility

**Cable Access** —top or bottom cable access

# MODEL SELECTION GUIDE

	MODEL NUMBER	X90-10S70k	X90-10S140k	X90-10S210k	X90-10S280k	X90-10S350k
CAPACITY	Power rating	70kVA/70kW	140kVA/140kW	210kVA/210kW	280kVA/280kW	350kVA/350kW
	MODEL NUMBER	X90-10S420k	X90-10S490k	X90-10S560k	X90-10S630k	X90-10S700k
CAPACITY	Power rating	420kVA/420kW	490kVA/490kW	560kVA/560kW	630kVA/630kW	700kVA/700kW
CABINET	X90-10S UPS: power modules	Up to 700kW (10 x 70kW)				
INPUT	Voltage / frequency nominal	480VAC (3W), 50/60Hz auto-sensing				
	Voltage / frequency range	329 – 520VAC (L-L), 40–70Hz				
OUTPUT	Voltage	480VAC (3W)				
	Frequency	40–70Hz				
	Efficiency	Up to 96.5% online mode or 99% ECO mode				
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms				
DIMENSIONS & WEIGHTS	UPS enclosure (W x D x H)	35.5 x 42 x 79 in / 787 lbs				
	Bypass enclosure (W x D x H)	17.7 x 42 x 79 in / 524 lbs				
	Power module	17.2 x 31.2 x 5.25 in / 104 lbs				
BATTERY SYSTEM	Nominal voltage	+/-240VDC				
	Charge Current (programmable)	18A (70kW) 108A (420kW)	36A (140kW) 126A (490kW)	54A (210kW) 144A (560kW)	72A (280kW) 162A (630kW)	90A (350kW) 180A (700kW)
ENVIRONMENT	Temperature	0–40°C (32–104°F)				
	Altitude	5,200 ft above sea level				
	Audible noise (typical)	< 69dBA at 1m				
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA				
WARRANTY		2 years (USA and Canada)				
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Relay, Modbus)				
INCLUDED IN BOX		User manual, RS-232 cable, unloading ramp, ViewPower Software				
AVAILABLE OPTIONS		Matching external maintenance bypass, battery temperature sensor				



Touch LCD Display

**65kAIC breakers**  
Main, Maintenance  
Bypass & Output  
Breakers

**Top/Bottom  
Cable Entry**



Maintenance bypass  
(door removed)



X90-10S 700kW UPS  
(door removed)

**UPS Enclosure**  
Includes slots for  
up to (10) 70kW  
power modules

**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

XPC EMEA / Rotterdam, NL / emea@xpcc.com

www.xpcc.com

©2021 Xtreme Power Conversion Corporation. All Rights Reserved. P915-10.01U (Rev 1/15/20)

# XTREME POWER CONVERSION R91

Three-phase Online UPS // 415/240VAC, 400/230VAC, 380/220VAC

For more information, visit [www.xpcc.com/r91](http://www.xpcc.com/r91)



## 18kW of efficient and reliable power in just 7U of rack space

Xtreme Power R91 provides industry leading power density and efficiency. Continuous online double conversion or ECO mode can be user selected. The R91 programmable battery charger and advanced rectifier power walk-in features help optimize compatibility with numerous source types and ratings.

The R91 UPS is available in many custom configurations including parallel tie with up to 4 modules, 480V input, maintenance bypass, and output distribution.

### PRODUCT SNAPSHOT

- › Voltage can be configured for 415/240V, 400/230V, or 380/220V
- › Parallel up to 4 modules for capacity or redundancy
- › Online double conversion or ECO mode operation
- › Programmable rectifier power walk-in
- › UL 1778, CE, FCC A, RoHS
- › 2 years depot warranty (USA only)

### FEATURES

**High power density—**  
20kVA/18kW of protection and backup power in just 7U of rack space

**Efficiency—**up to 99% efficiency in ECO mode and 94% efficiency in online mode

**Programmable battery charger—**charging rate, boost and float voltages

**Multiple communications capability—**RS232/RS485 and optional Web/SNMP

**Temperature compensation—**temperature compensated charging to prolong battery life and help reduce replacement costs

**Adjustable power walk-in—**provides programmable linear reloading of AC source

**Advanced LCD display—**full color display of power metering for individual phases and system summary

# MODEL SELECTION GUIDE

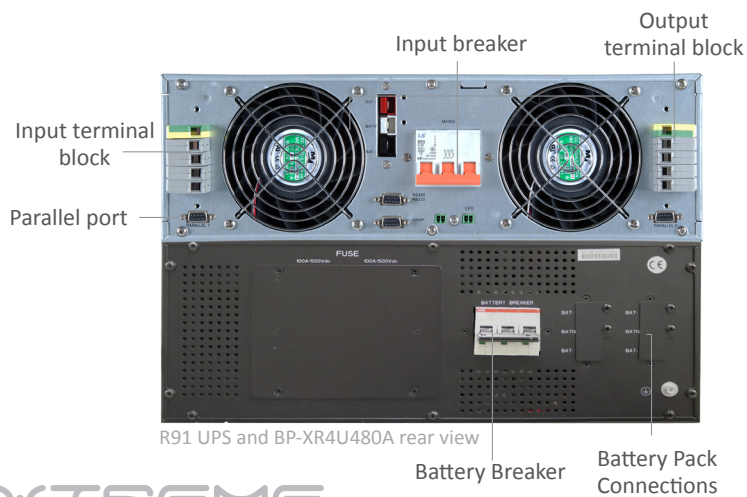
For more information, visit [www.xpcc.com/r91](http://www.xpcc.com/r91)

MODEL NUMBER		R91-20K
CAPACITY	Power rating	20kVA/18kW
INPUT	Phase	Three-phase + neutral + ground
	Voltage range	210–478VAC*
	Frequency	40–70Hz
	Power factor	≥ 0.99
	Rectifier power walk-in	1–20 seconds (programmable)
OUTPUT	Voltage	415/240VAC, 380/220VAC, 400/230VAC (selectable)
	Overload protection	110% for 60 min; 125% for 10 min; 150% for 1 min; > 150% immediate
	Voltage regulation	± 2%
	Efficiency	Online mode up to 94%; ECO mode up to 99%
UPS PHYSICAL	Dimensions (W x D x H)	443 x 580 x 131 mm (17.4 x 22.8 x 5.2 in)
	Unit/shipping weight	31 kg (68.4 lbs) / 42 kg (92 lbs)
ENVIRONMENT	Operating temperature	0–40°C (32–104°F)
	Altitude	11,500 ft above sea level
	Humidity	0–95% non-condensing
	Storage temperature	-25–55°C (-13–131°F) non-condensing (UPS)
OPTIONAL BATTERY PACKS	Model number	BP-XR4U480A
	Dimensions (W x D x H)	17.4 x 33.9 x 7.0 in (4U)
	Unit/shipping weight	280 lbs/300 lbs
	Recharge time	<4 hrs to 90%
	Charger amps	0A-6A
	Battery configuration	Hot Swappable Battery Modules
APPROVALS		UL 1778, FCC A, CE, RoHS
WARRANTY		2 years depot warranty (USA only)
COMMUNICATIONS INTERFACE		RS232, RS485, EPO, parallel port, external Web/SNMP (optional)
INCLUDED IN BOX		User manual, RS232, shelf kit, Muser monitoring software
AVAILABLE OPTIONS		IEC 60309 32A input/output cord kit, Web/SNMP card, maintenance bypass

\*Online Mode. Depending on load level. \*\*Runtimes are shown in minutes and will vary based on battery age and site conditions. For longer runtimes please contact [sales@xpcc.com](mailto:sales@xpcc.com)

## BATTERY RUNTIMES

	BP-XR4U480A			
Percentage load:	25%	50%	75%	100%
(1) Battery pack	40	18	10	7.0
(2) Battery packs	93	41	25	18.0



**X-TREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2017 Xtreme Power Conversion Corporation. All Rights Reserved. R91.01I (Rev 5/22/17)

# XTREME POWER CONVERSION J40

Ultra-Slim Surge PDU // 120VAC or 230VAC

Ultra-Slim Surge PDU with Remote Power Switch // 120VAC

For more information, visit [www.xpcc.com/j40](http://www.xpcc.com/j40)



## Protect digital signage from spikes and surges with ultra-slim J40 surge PDU

Xtreme Power J40 provides the benefits of advanced surge suppression technology in an ultra-slim form factor. Simple wall mounting, and easy access receptacles make J40 ideal for mounting behind thin display screens in used in hotels, restaurants, hospitals, campuses, airports and other commercial areas.

While J40 compact design is appealing to the digital signage industry, it is also excellent for providing protection to kiosks, gaming machines, computers, point-of-sale equipment, and small printers.

The J40SP provides additional benefit of remote IP control capabilities. J40SP gives technicians the ability to manage outlets including remote on/off, scheduling, and power cycling of individual outlets.

### PRODUCT SNAPSHOT

- › Available models: J40 120V, J40i 230V, J40SP 120V
- › Slim and light weight J40 mounts easily behind flat panel displays
- › Primary applications: digital signage, kiosks, gaming machines, and Point of Sale (POS)
- › Reboot load devices via remote power switch function (J40SP)
- › Over voltage and over temperature protection
- › 5 year warranty (USA & Canada)

### FEATURES

**Remote power switch**—optional feature provides remote reset on/off, and scheduling on J40SP models

**Eliminates surge energy up to 2400 Joules**—connected equipment is protected from destructive spikes, surges, and inductive transients

**Mounting brackets**—easily mounts to wall or ceiling in any orientation

**Power reset**—all models include a reset button to allow manual cycling of power

**Thermal fuse MOV modules**—provide protection from over voltage and over temperature conditions and comply with UL 1449 3rd edition.

**Flat installation**—power inlet, receptacles, and RJ45 connections are located on the unit sides

**Input cord**—optional detachable offset, right angle 5–15P power cord provides flexible installation

**Ethernet switch**—built in two port switch for network connectivity on J40SP model

# MODEL SELECTION GUIDE

MODEL NUMBER		J40	J40SP	J40i
INPUT	Capacity	10A		
	Voltage	120VAC		230VAC
	Frequency	50/60Hz		
OUTPUT	Voltage	120VAC		230VAC
	Frequency	50/60Hz		
	Surge suppression	2400 joules		
PHYSICAL	Dimensions (W x D x H)	8.07 x 3.35 x 1.22 in	8.07 x 7.87 x 1.22 in	8.07 x 3.35 x 1.22 in
	Weight	2.0 lbs	3.75 lbs	2.0 lbs
	Line cord	Optional C13 to 5-15P		IEC C14 inlet
	Receptacles	(3) 5-15R	(3) 5-15R switchable	(3) IEC C13
	Remote power control	N/A	Remote on/off receptacle control	N/A
ENVIRONMENT	Temperature	-4-158°F (-20-70°C)		
	Humidity	0-90%		
	Altitude	11,500 ft above sea level		
WARRANTY		5 year warranty (USA & Canada)*		
COMMUNICATIONS INTERFACE		N/A	RJ45 Ethernet switch	N/A

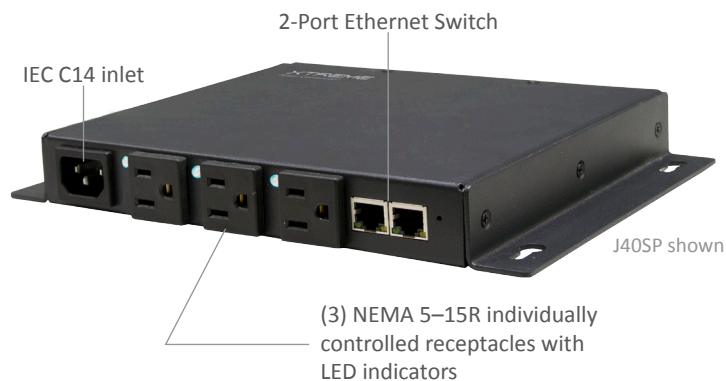
\*Warranty outside of USA & Canada is 3 years.

J40SP IP Interface, Outlet Control

Outlet Control			
Control Action : <span>No Action</span>			
Select Outlets : <input checked="" type="checkbox"/> All Outlets			
Port Number	Port Name	Status	Active
1	Outlet 1 - Server	On	<input checked="" type="checkbox"/>
2	Outlet 2 - Router	On	<input checked="" type="checkbox"/>
3	Outlet 3 - PC	On	<input checked="" type="checkbox"/>

J40SP IP Interface, Outlet Current

Outlet Current		
No	Outlet	Current
1	Outlet 1 - Server	3.5
2	Outlet 2 - Router	0.7
3	Outlet 3 - PC	0.1



# XTREME POWER CONVERSION JX Series

Isolation Transformer Power Conditioner



## Power conditioning for critical electronic equipment

Xtreme JX Series power conditioners offer complete line isolation, noise filtering, and enhanced surge suppression. The ultra-slim form factor is made possible using toroidal isolation transformer technology. Secondary neutral to ground bonding eliminates common mode noise.

JX Series flat pack enclosure can be mounted where other power conditioners do not fit. Standard mounting brackets allow JX Series to be on walls, under counters or inside enclosures.

JX Series applications include Point of Sale (POS), Instrumentation, ATMs, Kiosks, Security Devices, and any critical electronic installation with grounding or noise issues.

For a matching UPS model, learn more about the J60 at [www.xpcc.com/j60](http://www.xpcc.com/j60)

### PRODUCT SNAPSHOT

- › Toroidal Isolation Transformer Technology
- › Complete Line Isolation
- › Common Mode and Normal Mode Noise Filtering
- › Enhanced Surge Suppression
- › 5 years warranty (USA & Canada)

### FEATURES

**Toroid Isolation Transformer** —provides small size and low stray magnetic fields

**Ease of use**—plug-and-play functionality means the power conditioner is ready to start protecting your equipment right out of the box

**Site Fault Indicator** —Red LED warns if the AC outlet is missing its input safety ground

**DIN Rail Mounting** —optional DIN rail mounting kit

**Surge protection LED** —green LED monitors surge protection circuit to ensure effective protection

**Mounting brackets**—allows JX series to mount on walls, under counters, or inside enclosures

**Isolation transformer** —eliminates common mode noise and the need to install expensive dedicated circuits

# MODEL SELECTION GUIDE

MODEL NUMBER		JX-200
CAPACITY	Power rating	200VA (200W)
INPUT	Voltage	120VAC
	Frequency	50/60Hz
	Breaker	5A, 125VAC
OUTPUT	Voltage	120VAC
	Frequency	50/60Hz
	Surge diverter	Included
	Let-through noise	<10 volts normal mode and < .5 volts common mode
PHYSICAL	Dimensions (W x D x H)	6.9 x 8.5 x 1.25 in(175 x 216 x 32 mm)
	Weight	6.6 lbs(3.0 kg)
	Line cord	C13 to 5–15P
	Receptacles	(3) 5–15R
ENVIRONMENT	Temperature	32–104°F (0–40°C)
	Humidity	0–95%
	Altitude	11,500 feet above sea level
APPROVALS		UL 60950-1 RoHS
COMMUNICATIONS INTERFACE		LED*2 (green/red)
INCLUDED IN BOX		Detachable mounting brackets, user manual
AVAILABLE OPTIONS		Line cord with offset right angle 5–15P, DIN rail mounting kit (coming soon)

\*Wall mount brackets add .6" / 15mm to each side



**XTREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

XPC EMEA / Rotterdam, NL / emea@xpcc.com

www.xpcc.com

©2018 Xtreme Power Conversion Corporation. All Rights Reserved. J60.02U (Rev 8/9/18)

# XTREME POWER CONVERSION XBDM

Bypass Distribution Module

For more information, visit [www.xpcc.com/xbdm](http://www.xpcc.com/xbdm)



## Repair or replace your UPS without power interruption by manually transferring critical loads from UPS power to utility power using the XBDM

The XBDM ensures continuous uptime for your critical electronics. This maintenance bypass module allows you to manually transfer critical loads from UPS power to utility power using a bypass switch, enabling UPS repair or replacement without power interruption to the load. Transferring back to protected UPS power is just as easy; simply return the bypass switch to the UPS position.

Read the Hot Swappable UPS white paper at [www.xpcc.com/whitepaper](http://www.xpcc.com/whitepaper)  
For hardwired XBDM models, reference [www.xpcc.com/xbdmhwh](http://www.xpcc.com/xbdmhwh)

### PRODUCT SNAPSHOT

- › Available in: 15AMP, 20AMP, and 30AMP models
- › Simplifies UPS repair or replacement and reduces costly downtime
- › Easy cord connection to UPS
- › Offers surge protection during UPS and utility mode
- › Bypass switch provides transfer within 4–8ms

### FEATURES

**Power distribution**—the XBDM adds up to ten output receptacles and combines bypass functionality with power distribution capability in one enclosure

**Replace or service the UPS**—while maintaining power to critical loads

**Easy installation**—both the UPS and utility power are connected to the XBDM with the supplied cords

**Simple to operate**—LED indicators verify availability of UPS and utility sources to confirm to the operator that power is available before transferring critical loads

**Surge protection**—loads are surge protected even when UPS is in bypass mode; UPS electronics are protected during normal operation

**Flexible mounting**—supports horizontal 1U rack mount and vertical rack mount installation

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/xbdm](http://www.xpcc.com/xbdm)

MODEL NUMBER		XBDM-1015LV	XBDM-1020LV	XBDM-1030LV	XBDM-1020HV
POWER RATING	Voltage/current	120VAC/15A	120VAC/20A	120VAC/30A	230VAC/20A
INPUT	Utility input	12 ft, 5–15P	12 ft, 5–20P	6 ft, L5–30P	IEC C20
	AC frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
OUTPUT	Maximum output	12A	16A	24A	16A
RECEPTACLES	Front output	(6) 5–15R	(6) 5–20R	(5) 5–20R	(2) C19 + (4) C13*
	Rear output	(4) 5–15R	(4) 5–20R	(5) 5–20R	(4) C13
	Rear UPS input	(1) 5–15R	(1) 5–20R	(1) L5–30R	(1) C19
TRANSFER SWITCH	Quantity and capacity	(1) 15A	(1) 20A	(2) 20A	(1) 20A
UPS OUTPUT	Cord to UPS output	3 ft, 5–15P	3 ft, 5–20P	3 ft, L5–30P	IEC C20
AC SURGE	Max spike current	6500A	6500A	6500A	6500A
	Energy dissipation	114J	114J	114J	220J
	Max clamping voltage	330VAC	330VAC	330VAC	330VAC
INDICATORS	UPS available	Red LED			
	Utility available	Orange LED			
	Surge protection	Green LED			
PHYSICAL	Dimensions (W x D x H)	17 x 3.5 x 1.75 in (1U)			
	Weight	3.5 lbs			
INCLUDED IN BOX		19" rack mounting hardware, user manual, power cords (120VAC models)			

\*XBDM-1020HV cord kit sold separately

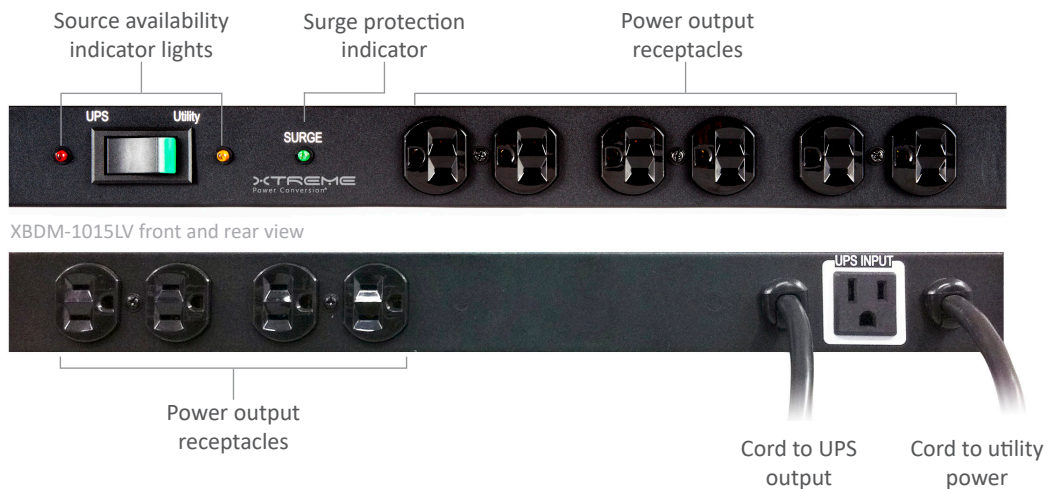
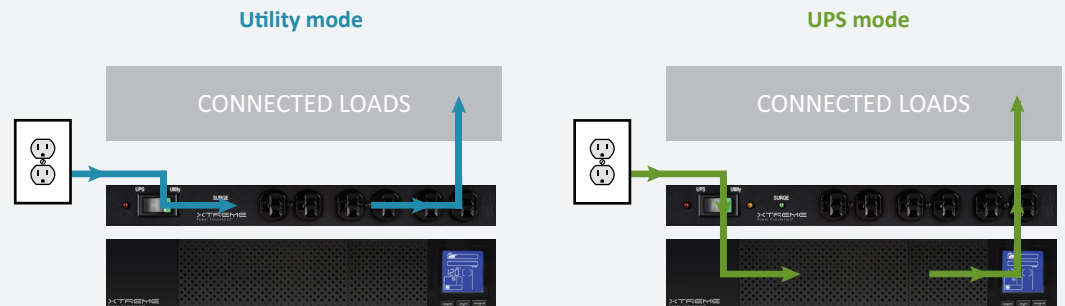
The XBDM features two modes of operation:

## 1) Utility mode

Utility power bypasses the UPS system and is supplied to the load directly

## 2) UPS mode

Power is routed through the UPS system to the connected load



**XTREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

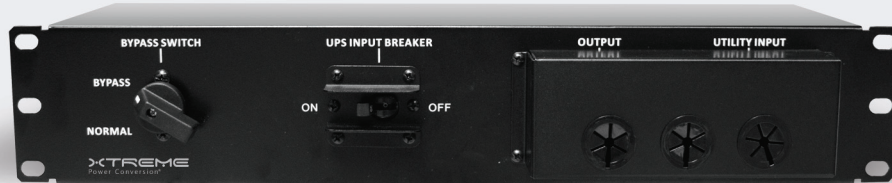
[www.xpcc.com](http://www.xpcc.com)

©2015 Xtreme Power Conversion Corporation. All Rights Reserved. XBDM.01U (Rev 3/16/15)

# XTREME POWER CONVERSION XBDM HW

Bypass Distribution Module

For more information,  
visit [www.xpcc.com/xbdmhw](http://www.xpcc.com/xbdmhw)



## XBDM HW provides UPS maintenance bypass with input and output hardwired terminal block connections

The XBDM HW ensures continuous uptime for your critical electronics. This maintenance bypass module allows you to manually transfer critical loads from UPS power to utility power using a bypass switch, enabling UPS repair or replacement without power interruption to the load. Transferring back to protected UPS power is just as easy; simply return the bypass switch to the UPS position.

Read the Hot Swappable UPS white paper at [www.xpcc.com/whitepaper](http://www.xpcc.com/whitepaper)  
For plug and receptacle XBDM models, reference [www.xpcc.com/xbdm](http://www.xpcc.com/xbdm)

### PRODUCT SNAPSHOT

- › Available in: 15A, 20A, 30A, and 63A models
- › Simplifies UPS repair or replacement and reduces costly downtime
- › Hardwired utility input and system output
- › Bypass switch provides transfer within 8ms

### FEATURES

**Terminal block connections**—XBDM HW provides input and output terminal block connections for connection to utility and load

**Power distribution**—the XBDM HW 15A and 20A models also provide six 5–15R output receptacles

**Simple to operate**—LED indicators are provided with 15A and 20A models to verify availability of UPS and utility sources

**Surge protection**—loads are surge protected (15A, 20A models) even when UPS is in bypass mode; UPS electronics are protected during normal operation

**Static switch interlock**—63A model provides make before break transfer and interlock for UPS static switch

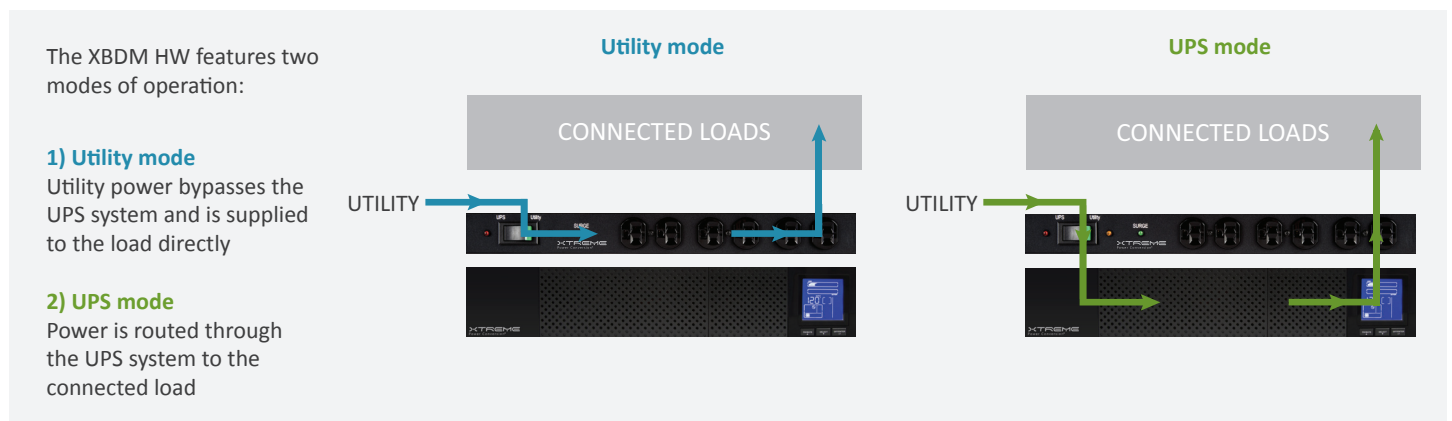
**Flexible mounting**—wall and rack mounting hardware included

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/xbdmhw](http://www.xpcc.com/xbdmhw)

	MODEL NUMBER	XBDM-15RHW	XBDM-20RHW	XBDM-HW30	XBDM-HW63*
POWER RATING	Voltage/current	120VAC/15A	120VAC/20A	120VAC/30A	230VAC/63A
INPUT	Utility input	Hardwired terminal block			
	Breaker	N/A		30A/1P	63A/2P
OUTPUT	Output	Hardwired terminal block + (6) 5–15R		Hardwired terminal block	
TRANSFER SWITCH	Capacity	20A break before make rocker switch		30A break before make rotary switch	63A make before break rotary switch w/ interlock
	Transfer time	8ms		8ms	0ms
UPS INPUT	Input connection	5–20R		L5–30R	Hardwired or cable kit w/ Anderson connectors
UPS OUTPUT	Connection to UPS output	3 ft cord with 5–15P plug	3 ft cord with 5–20P plug	3 ft cord with L5–30P plug	Hardwired or cable kit w/ Anderson connectors
AC SURGE	Capacity	6500A, 114J, 330VAC		N/A	
INDICATORS	LED indicators	Utility, surge, UPS		N/A	
PHYSICAL	Dimensions (W x D x H)	17 x 3.5 x 1.75 in		17.25 x 5.25 x 3.5 in	
	Weight	3.6 lbs		7.3 lbs	7.1 lbs
WARRANTY		3 years (USA and Canada)			
INCLUDED IN BOX		Standard 19" rack mounting hardware, user manual			
AVAILABLE OPTIONS		Input cord sets and connectors			

\*XBDM-HW63 to be used with bypass interlock such as Xtreme Power P90L 6kVA & 10kVA



**XTREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2015 Xtreme Power Conversion Corporation. All Rights Reserved. XBDM-HW.01U (Rev 3/16/15)

# XTREME POWER CONVERSION PowerLOK PDU

Rack Power Distribution // Single-Phase and Three-Phase

For more information, visit  
[www.xpcc.com/powerlok-pdu](http://www.xpcc.com/powerlok-pdu)



## Greater Reliability and Advanced Functionality

Xtreme PowerLOK is the next generation of rack power distribution. The highest reliability is achieved with automated soldering from line input to the output receptacles - eliminating all mechanical connections. Slim vertical design with angled input whip provides increased versatility.

Optional CordLOK allows for insertion and removal with a single hand while offering industry leading receptacle density for C13 and C19 power cords.

Monitored models include 0.5% monitoring accuracy and intuitive touchscreen display and RJ45 interface. Embedded web server simplifies real time and historical graphing of Temperature and other critical values; KW/KVA, Current, Power Factor, and Voltage.

32 in-stock models qualify for the PowerLOK quick ship program, and 8,400 customized models available in 10-14 days.

For 120V PDU models reference the XPDU at  
[www.xpcc.com/xpdu](http://www.xpcc.com/xpdu)

### PRODUCT SNAPSHOT

- › Available models: Single-phase and three-phase
- › Basic and monitored models available
- › 3 year full warranty (USA and Canada)
- › Made in the USA, TAA compliant
- › Certified to UL/CSA 60950-1, NOM, FCC and RoHS

### FEATURES

**Slim Vertical Design** — Measuring only 2.18" wide x 2.0" deep, Xtreme PowerLOK PDUs optimizes receptacle density

**CordLOK** — optional cord locking system for easy insertion, secure retention and detachment of power cords

**Angled Input Cord** — provides improved access to rack access

**Internal Temperature Reporting** — available on monitored units

**Touch LCD Display** — intuitive display of KW/KVA, Current, PF, Voltage, Temperature including real time and historical graphing of values/options

**Color Choices** — choose from one of four colors at no additional cost

**8,400 configurations available** — 32 quick ship models available from stock

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/powerlok-pdu](http://www.xpcc.com/powerlok-pdu)

MODEL NUMBER		GENERAL SPECIFICATIONS
CAPACITY	Power rating	120/208V
PHYSICAL	UPS dimensions (W x D x H)	72" x 2.0" x 2.18"
	Weight	15 lbs
ENVIRONMENT	Operating temperature	32–122°F (0–50°C)
	Humidity	0–90%
	Altitude	11,500 ft above sea level
MONITORING & COMMUNICATION	Touch LCD	
	.05% accuracy	
	Graphics	
	RJ45	
APPROVALS		TAA
WARRANTY		3 years warranty
COMMUNICATIONS INTERFACE		RS-232, LCD touchscreen (monitored)
INCLUDED IN BOX		
AVAILABLE OPTIONS		Colors, cord lock

MODEL NUMBER	Input Power Connection	Outlets	Voltage	Amps	Max kW
Basic / Monitored					
XP7101 / XP7101D	L21-20P	(48) C13	Three-Phase 208/120Vac	20A	5.7kW
XP7102 / XP7102D	L21-20P	(36) C13 + (6) C19	Three-Phase 208/120Vac	20A	5.7kW
XP7103 / XP7103D	L21-20P	(48) C13 + (2) 5-15R	Three-Phase 208/120Vac	20A	5.7kW
XP7104 / XP7104D	L21-20P	(36) C13 + (6) C19 + (2) 5-15R	Three-Phase 208/120Vac	20A	5.7kW
XP7151 / XP7151D	IEC 309	(48) C13	Three-Phase 415/240Vac	20A	11.5kW
XP7152 / XP7152D	IEC 309	(36) C13 + (6) C19	Three-Phase 415/240Vac	20A	11.5kW
XP7153 / XP7153D	IEC 309	(36) C13 + (12) C19	Three-Phase 415/240Vac	20A	11.5kW
XP7201 / XP7201D	L21-30P	(48) C13	Three-Phase 208/120Vac,	30A	8.6kW
XP7202 / XP7202D	L21-30P	(36) C13 + (6) C19	Three-Phase 208/120Vac,	30A	8.6kW
XP7203 / XP7203D	L21-30P	(36) C13, (6) C19, (1) 5-15R	Three-Phase 208/120Vac	30A	8.6kW
XP7251 / XP7251D	IEC 309	(48) C13	Three-Phase 415/240Vac	30A	17.2kW
XP7252 / XP7252D	IEC 309	(24) C13 + (12) C19	Three-Phase 415/240Vac	30A	17.2kW
XP7301 / XP7301D	L6-20P	(32) C13	Single-Phase 208Vac or 240Vac	20A	3.8kW*
XP7302 / XP7302D	L6-20P	(24) C13 + (4) C19	Single-Phase 208Vac or 240Vac	20A	3.8kW*
XP7351 / XP7351D	L6-30P	(32) C13	Single-Phase 208Vac or 240Vac	30A	5.7kW*
XP7352 / XP7352D	L6-30P	(36) C13 + (6) C19	Single-Phase 208Vac or 240Vac	30A	5.7kW*

Models listed are available for quick ship program. Over 8400 models available. Max kW based on 240VAC



**XTREME**  
Power Conversion®

Protect your business.

XPC USA / Denver, CO / [sales@xpcc.com](mailto:sales@xpcc.com)

XPC EMEA / Rotterdam, NL / [emea@xpcc.com](mailto:emea@xpcc.com)

[www.xpcc.com](http://www.xpcc.com)

©2020 Xtreme Power Conversion Corporation. All Rights Reserved. XPDU.01U (Rev 7/8/20)

# XTREME POWER CONVERSION Web/SNMP Cards

UPS Management



## Provide real-time monitoring, management, and control of remotely connected UPS from a web browser

Xtreme Power UPS capabilities can be enhanced with the addition of an optional Web/SNMP card.

The included software allows you to conveniently manage, maintain, and monitor your UPS, while enabling graceful shutdowns and monitoring environmental conditions.

### PRODUCT SNAPSHOT

- › Real-time UPS monitoring
- › Centralized authentication by Radius
- › Support UPS MIB, RFC1628, PPC MIB
- › Standard three year limited factory warranty

### FEATURES

**UPS management and real-time monitoring**—develop a comprehensive power management and monitoring plan with flexible configuration via Web Browser, NMS, Telnet, or SNMP

**Advanced Encryption**—use https, SSL, SSH, and SNMPv3 protocols

**Event notification**—receive notifications via email, SMS, or Traps








**Detailed log listing**—through event, data, and battery test logs

**Multiple language support**—set a customizable user interface to meet site specific needs

**UPS control**—schedule UPS self tests, examine event/data logs, perform multi server shutdown, examine battery performance, reboot UPS and load equipment, and more

**Environmental monitoring**—optional SNMP-EMD monitors temperature, humidity, and water level and sends Trap and email notifications when events occur

# MODEL SELECTION GUIDE

MODEL NUMBER	SNMP-2PV3	SNMP-M90S	SNMP-2P3	SNMP-2PG1	SNMP-R90	SNMP-J60	SNMP-USB
CPU	ARM9 180MHz 32Bit						
Port	2 ports				1 port		
Flash memory	8MB						
Web multi-language	Yes						
Power source	Internal				External*		
Watch Dog	Yes						
LAN interface	10/100/1000M	10M/100M UTP					
LAN protocol	TCP/IP, HTTP, HTTPS, SSL, SSH, SMTP, SNTP, DHCP, Telnet, BOOTP, DNS, DDNS, PPPoE, RADIUS, IPv4, IPv6						
MIB	PPC MIB, RFC1628, SNMPv1, SNMPv2, SNMPv3						
Real time clock (RTC)	Yes						
Warranty	3 years (USA and Canada)						
UPS power cycle	✓	✓	✓	✓	✓		✓
External box					✓	✓	✓
Internal card/module	✓	✓	✓	✓			
MODBUS over TCP/IP compatible				✓			
SNMP-EMPV2 / EMD / TMPH compatible**	✓		✓	✓			
LCD display							✓
Dimensions (W x D x H)	2.0 x 3.1 x 0.9 in	2.7 x 4.9 x 1.1 in	2.7 x 4.9 x 1.1 in	2.7 x 4.9 x 1.1 in	1.9 x 2.5 x .75 in	2.0 x 4.0 x 1.4 in	1.7 x 2.2 x .75 in
Product image							

\*External 120V power adapter included. \*\*EMPV2 must be used with 2PV3 / EMD must be used with the 2P3 / TMPH must be used with 2PG1

# WEB/SNMP CARD COMPATIBILITY GUIDE

Model Number	Part Number	Xtreme Power UPS
SNMP-2PV3	90000675	J90, P80(g), P91 (g,Li, P90L(g), T91 100VA-3000VA, TX91 (L), TXVR, V80 (Li, XR, HT)
SNMP-M90S	90000698	M90S-2S, M90S-4S, M90S-6S
SNMP-2P3	90000566	E91, M90U, M90LU, M90U-80, M90U-140
SNMP-2PG1	90001245	E91, R91, X90, M90C
SNMP-R90	90000266	R91
SNMP-J60	90000261	J60 (c, i)
SNMP-USB	90000281	A60, S71

**X-TREME**  
Power Conversion®

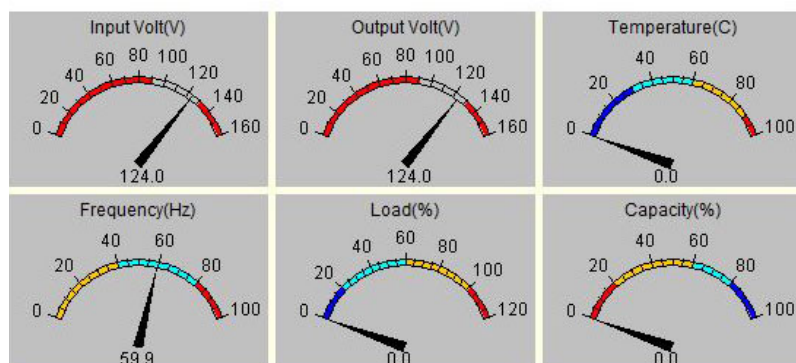
Protect your business.

XPC USA / Denver, CO / sales@xpcc.com

XPC EMEA / Rotterdam, NL / emea@xpcc.com

www.xpcc.com

©2019 Xtreme Power Conversion Corporation. All Rights Reserved. SNMP.01U (Rev 1/27/22)



SNMP Web management interface meter/chart