



# **XBDM-HW63**

63A Model

User & Installation Manual

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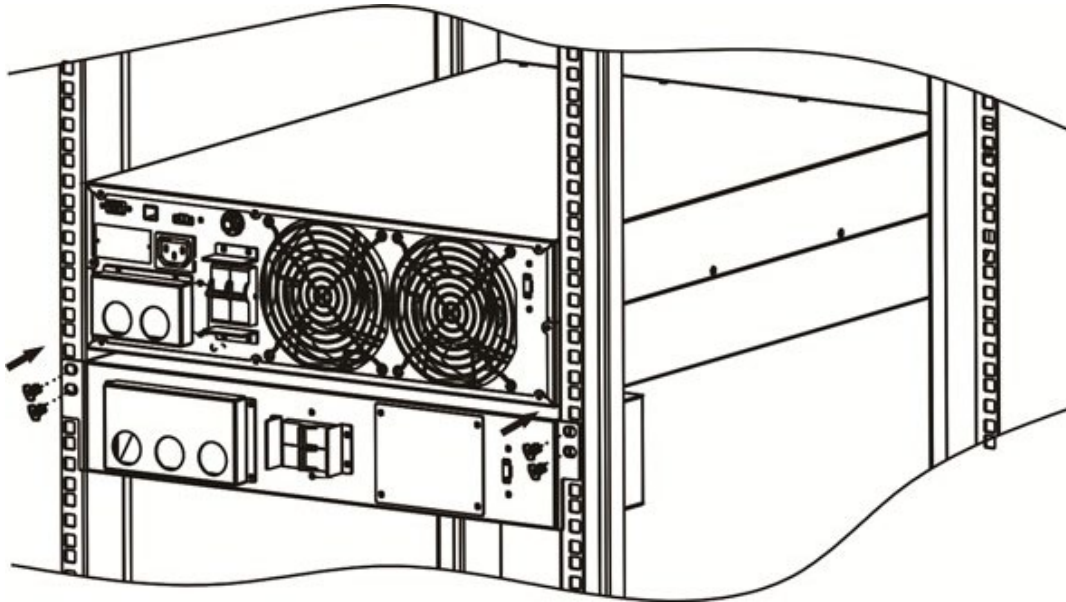
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## Introduction

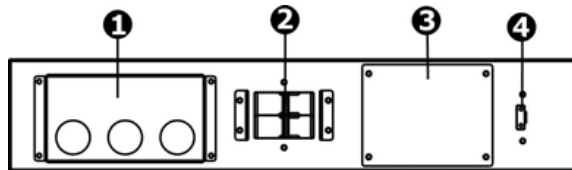
The module is used as an external maintenance bypass switch to provide continuous power without shutting down the connected loads during UPS scheduled maintenance or battery replacement. It's perfect to use in conjunction with 6kVA/10kVA UPS.

### Rack Mount the Unit

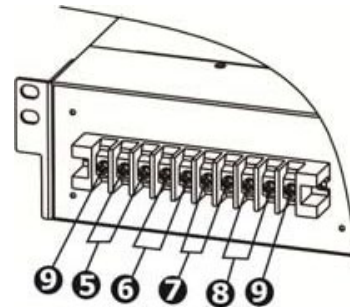
The module can be mounted to a 19" enclosure. Please follow below chart for rack mount installation.



## Product Overview



Rear panel View



Terminal overview

1. Input/Output terminal
2. UPS input breaker
3. Maintenance bypass switch
4. Control output signal slot
5. Output terminal
6. UPS output terminal
7. UPS input terminal
8. Utility input terminal
9. Grounding terminal

## Installation and Operation

### Inspection

Unpack the package and check the package contents. The shipping package contains:

- Maintenance bypass switch module x 1
- Quick guide x 1
- Control signal cable x 1

**NOTE:** Before installation, please inspect the unit. Be sure that nothing inside the package is damaged during transportation. Do not turn on the unit and notify the carrier and dealer immediately if there is any damage or lacking of some parts. Please keep the original package in a safe place for future use.

### Initial Setup

The Installation and wiring must be performed in accordance with the local electric laws/regulations and execute the following instructions by professional personnel.

1. Make sure the mains wire and breakers in the building are enough for the rated capacity of UPS to avoid the hazards of electric shock or fire.  
**NOTE:** Do not use the wall receptacle as the input power source for the UPS, as its rated current is less than the UPS's maximum input current. Otherwise, the receptacle may be burned and destroyed.
2. Switch off the mains switch in the building before installation.
3. Turn off and shut down the connected UPS.
4. Prepare wires based on the following table:

UPS Model	Wire Spec (AWG)
6kVA	8
10kVA	6

**NOTE 1:** The cable for 6kVA should be able to withstand over 40A current. It is recommended to use 8AWG or thicker wire for safety and efficiency.

**NOTE 2:** The cable for 10kVA should be able to withstand over 63A current. It is recommended to use 6AWG or thicker wire for safety and efficiency.

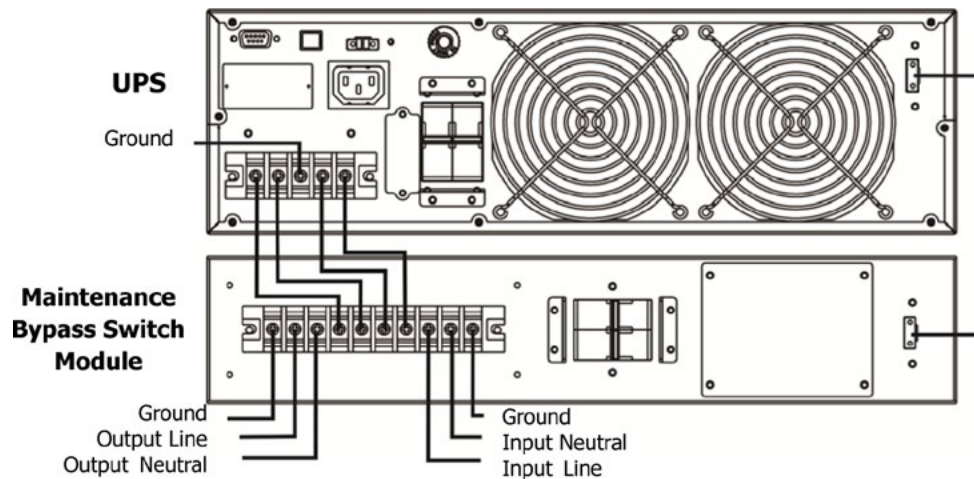
**NOTE 3:** The selections for color of wires should be followed by the local electrical laws and regulations.

5. Remove the terminal block cover on the rear panel of the module. Then connect the wires according to the following terminal block diagrams:

### Connect UPS and External Maintenance Bypass Switch Module

Remove the terminal block cover on the rear panel of the module. Then connect output terminals of UPS to output terminals of switch module. Connect utility input terminals of UPS to UPS input terminals of switch module. Connect signal slots of UPS and switch module with control signal cable attached to the package.

Refer to the following terminal block diagrams:



**NOTE:** Make sure that the wires are connected tightly with the terminals.

Put the terminal block cover back to the rear panel.

## Operation

### *Transfer to Maintenance Bypass*

To transfer to maintenance bypass from UPS, follow the below steps:

**Step 1:** Press “OFF” button of UPS unit to transfer to bypass mode.

**Step 2:** Open the maintenance switch door. If step 1 is not executed first, then UPS unit will transfer to bypass mode automatically with control output signal connection when opening the maintenance switch door.

**Step 3:** Transfer rotary switch to “BPS” position and switch off UPS input breaker on the module. Then, all devices are directly powered by utility and there is no current through the UPS. The output and input of UPS are isolated from the system. You may now service or maintain the UPS by shutting down the batteries of UPS.

### *Transfer to UPS Protection*

After maintenance service is done, follow below steps to transfer back to UPS operation.

**Step 1:** Switch on the input breaker of the module and reconnect UPS battery input breaker. Then UPS will enter to bypass mode.

**Step 2:** Transfer rotary switch to “UPS” position. Then, all devices are powered by utility through UPS bypass mode.

**Step 3:** Close back maintenance switch door and press “ON” button of UPS unit. Then, all devices are protected by the UPS.

**NOTE:** If maintenance will be executed in another place, before removing the UPS and the module, please follow steps of “Transfer to Maintenance Bypass” and then disconnect all wires between UPS and the module for complete isolation.

## Specification of Critical Components

Parameter		Max.
Input breaker	Current	63A
	Voltage	250V
Bypass switch	Current	63A
	Voltage	690V
Input/Output terminal	Current	76A
	Voltage	600V

MODEL NUMBER		XBDM-HW63*
POWER RATING	Voltage/current	230VAC/63A
INPUT	Utility input	Hardwired terminal block
	Breaker	63A/2P
OUTPUT	Output	Hardwired terminal block
TRANSFER SWITCH	Capacity	63A make before break rotary switch w/ interlock
	Transfer time	0ms
UPS INPUT	Input connection	Hardwired or cable kit w/ Anderson connectors
UPS OUTPUT	Connection to UPS output	Hardwired or cable kit w/ Anderson connectors
PHYSICAL	Dimensions (W x D x H)	17.25 x 5.25 x 3.5 in
	Weight	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

## Obtaining Service

If the UPS requires Service:

1. Use the TROUBLESHOOTING section in this manual to eliminate obvious causes.
2. Verify there are no circuit breakers tripped.
3. Call your dealer for assistance. If you cannot reach your dealer, or if they cannot resolve the problem, call Xtreme Power Conversion Corp Technical Support at 800.582.4524. Technical support inquiries can also be made at [support@xpcc.com](mailto:support@xpcc.com). Please have the following information available BEFORE calling the Technical Support Department:
  - Your name and address.
  - The serial number of the unit.
  - Where and when the unit was purchased.
  - All of the model information about your UPS.
  - Any information on the failure, including LED's that may or may not be illuminated.
  - A description of the protected equipment, including model numbers if possible.
  - A technician will ask you for the above information and, if possible, help solve your problem over the phone. In the event that the unit requires factory service, the technician will issue you a Return Material Authorization number (RMA).

If you are returning the UPS to Xtreme Power for service, please follow these procedures:

1. Pack the UPS in its original packaging. If the original packaging is no longer available, ask the Technical Support Technician about obtaining a replacement set of packaging material. It is important to pack the UPS properly in order to avoid damage in transit. Never use Styrofoam beads for a packing material.
2. Include a letter with your name, address, daytime phone number, RMA number, a copy of your original sales receipt, and a brief description of the problem.
3. Mark the RMA number on the outside of all packages. Xtreme Power cannot accept any package without the RMA number marked on the outside of the boxes.
4. Return the UPS by insured, prepaid carrier to the address provided by the Technician.
5. Refer to the Warranty statements in this manual for additional details on what is covered.

## Xtreme Power Conversion Limited Warranty

Xtreme Power Conversion (XPC) Corporation warrants Xtreme Power Conversion equipment, when properly applied and operated within specified conditions, against faulty materials or workmanship for a period of **three years for XBDM-Series products** from the date of purchase. For equipment sites within the United States and Canada, this warranty covers repair or replacement, at the sole discretion of XPC Corporation. The customer is responsible for the costs of shipping the defective product to XPC Corporation. XPC Corporation will pay for ground shipment of the repaired or replacement product. This warranty applies only to the original purchaser.

If equipment provided by XPC Corporation is found to be **Dead-on-Arrival (DOA)**, XPC Corporation will be responsible for the costs of shipping product to and returning equipment from the customer in a timely manner as agreed to with the customer, once the customer has requested and received a **Return Material Authorization (RMA)** number. DOA equipment is defined as equipment that does not properly function according to user documentation when initially received and connected in conjunction with proper procedures as shown in the user documentation or via support provided by XPC Corporation personnel or authorized agents.

This warranty shall be void if (a) the equipment is repaired or modified by anyone other than XPC Corporation or a XPC Corporation approved third party; (b) the equipment is damaged by the customer, is improperly used or stored, is subjected to an adverse operating environment, or is operated outside the limits of its electrical specifications; or (c) the equipment has been used or stored in a manner contrary to the equipment's operating manual, intended use or other written instructions. Any technical advice furnished by XPC Corporation or a XPC Corporation authorized representative before or after delivery with regard to the use or application of Xtreme Power Conversion equipment is furnished on the basis that it represents XPC Corporations best judgment under the situation and circumstances, but it is used at the recipient's sole risk.

EXCEPT AS STATED ABOVE, XPC Corporation DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

EXCEPT AS STATED ABOVE, IN NO EVENT WILL XPC Corporation BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF Xtreme Power Conversion EQUIPMENT, including but not limited to, any costs, lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, cost of substitutes, or claims by third parties. Purchaser's sole and exclusive remedy for breach of any warranty, expressed or implied, concerning Xtreme Power Conversion equipment, and the only obligation of XPC Corporation under this warranty, shall be the repair or replacement of defective equipment, components, or parts; or, at XPC Corporations sole discretion, refund of the purchase price or substitution of an equivalent replacement product.