

# POWERLOK *A Better PDU from the Inside Out*

*PowerLOK offers advantages not found on other Rack PDUs*

- Higher reliability with machine soldered connections from line input to each receptacle.
- Same day shipment of 34 different 20-30A models. That's 3x what other leading manufacturers offer.
- Build and configure your own rack PDUs and ship in 10 days. (Orders greater than 24 units.)

## PowerLOK Description Specifies Every Rack PDU Feature

Rack PDU Monitored, 72", 20A 120/208V 3PH (5.7 kW), 36-C13 & 6-C19, 10 FT WHIP, NEMA L21-20P, CARBON

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### 1 Is remote monitoring needed?

- If the customer specified monitoring, do they need a display on the PDU? PowerLOK is available without the local display.
- If the customer did not specify monitoring, is power data important to their business and do they use rack power data for any purpose? Is the customer planning to collect rack power data at the Busway or the RPP?
- If power data is important, is 0.5% accuracy preferred? Other manufactures only meet 1.0% accuracy.
- Is the operating temperature rating of the rack PDU important to the customer? We can report the internal temperature of the rack PDU with a monitored model. In high-heat environments, this should be an important feature.

### 2 What is the rack height & rack PDU mounting method?

- What is the rack height in U-space that the PDU is going into? PowerLOK 72" units fit all known 42U racks. We also have 82" that fit 48U racks and 92" that fit 52U racks.
- How is the customer mounting the rack PDU? PowerLOK uses buttons that fit into a standard key-slot that most rack manufactures use.
- Are two rack PDUs going side-by-side? PowerLOK is 2.18" wide and works side-by-side in standard key-slot side-to-side spacing.
- Will the IT hardware or servers be placed at the top 1-3U or bottom 1-3U of the rack? PowerLOK's cord whip angle prevents obstruction to the rear access of servers.

### 3 What is the input voltage & max power needed at the rack?

- What voltage is available to the rack from the RPP or the busway? Understanding what power is available is absolutely necessary to ensure that when the PDU arrives it can be plugged into what's available.
- Do you know how much power you will need today and in the foreseeable future? PowerLOK has 3.0-17.2 kW Rack PDUs and three different voltage standards; 208V 1PH, 120/208V WYE 3PH & 240/415V WYE 3PH. Coming soon is 50 & 60A 3 phase.

### 4 What receptacles and how many are needed on the rack PDU?

- Customers will typically specify what they need due to varying types of IT hardware and applications.
- Most hardware today uses C13-C14 power cords which are rated for 15A/250V in North American and 10A Internationally. Higher power hardware often use C19-C20 power cords which are rated for 20A/250V in North America and 16A Internationally.
- Does the customer care to lock their cords using our CordLOK capability? CordLOK only costs about \$1 per receptacle and does not require you to give up receptacle density.



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### 5 How far away is the socket that the rack PDU must plug into?

- Is there a connection under the floor for the rack PDU or is there an overhead busway? Many IT racks are now in facilities without raised floors and this reduces the preferred PDU cord length. A shorter cord that is sized correctly dresses better when going to an overhead busway. PowerLOK comes in cable lengths that range from 3 ft. to 10 ft. in 1 ft. increments.
- Why does every APC rack PDU have 10 ft. cords when 10 ft. is not needed most of the time? APC products are made in advance in other countries and a 10 ft. standardized cord only benefits the manufacturer; instead, PowerLOK accommodates our customers' individual needs with cord lengths of 3-12 feet.



### 6 What is the plug type required on the rack PDU whip?

- Most common in US market are NEMA type plugs but in higher voltage applications, IEC309 splash proof plugs are sometimes specified by customers. One other type used is the CS8265 for 50A applications in the US. All of these plugs have locking capability to avoid accidental unplugging.
- Plugs must match the voltage and amperage standard being used. For example: a 20A 240/415V WYE 3PH uses a NEMA L22-20P but could also use an IEC309 20A Plug.



### 7 Are colored PDUs required?

- PowerLOK is available in Carbon, Blue, Red, and White as our standard colors. Color provides quick visual identification, simplifies management, saves time, and eliminates mistakes when tracing cables.
- Blue, Red and White are available on orders greater than 24 units at no additional cost. Lead time is 10-14 days.

### 8 What other questions should I be asking?

- Does the customer have concern with legacy PDUs that have a rats nest of wiring and mechanical connections and that, as a result, are 270% more likely to fail versus PowerLOK which uses machine soldered connections?
- Does the customer care about the temperature inside their rack PDUs? Did they care about this continuous operating specification when they last purchased a rack PDU? PowerLOK monitored units have internal temperature monitoring and reporting.
- Does the customer have concern that the rack PDU he is ordering might not be what he will get? That with so many variables, someone might mess it up? PowerLOK specs use electronic document signature to ensure you get what you want.