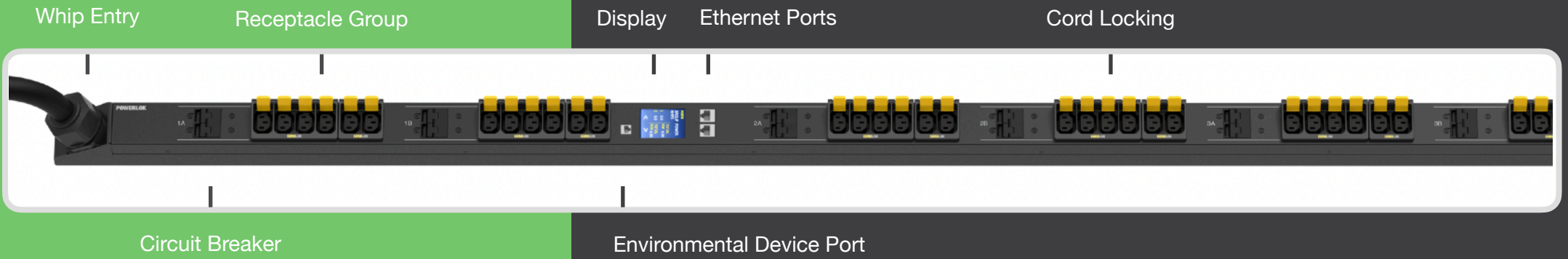


POWERLOK rPDU



Comprehensive rPDU Description Example

RACK PDU | MONITORED | 72" | 60A 208/240V 3PH (17.2 kW) | 48-C13, CORDLOK | 10FT WHIP | IEC309 (IP44) | CARBON

- 1
- 2
- 3
- 4
- 5
- 6
- 7

1

Is a monitored, switched or switched ready PDU required?

OPTIONS: BASIC, MONITORED, MONITORED READY, SWITCHED, SWITCHED READY

a) Do you plan to collect rack power data at the rPDU, busway and/or the remote power panel (RPP)?

b) rPDUs are rated to 50-60°C due to high-heat environments. Is monitoring the rPDU operating temperature important?

c) Do you plan to monitor server inlet and exhaust temperatures?

d) Is remote on/off/reboot outlet control required and do all receptacles require this or only a few?

Type from rPDU Selector:

BASIC

MONITORED

SWITCHED READY

2

What is the rack height & PDU mounting method?

OPTIONS: 24", 36", 41", 72" & 82" LENGTH PDUs

a) Do you plan to vertically mount or use rack space to horizontally mount the rPDU?

b) 72" PowerLOK fit all 42U racks. What is the rack height in U-space that the rPDU is mounting to?

c) 82" PowerLOK fit all 48U racks. Do you require more receptacles than what a 72" rPDU offers?

d) PowerLOK stacks vertically into a single rPDU footprint. Do you require more power in one rPDU footprint?

Size from rPDU Selector:

36"

41"

72"

82"

3

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

OPTIONS: 208/240V 1PH, 120/208V 3PH, 208/240V 3PH, 240/415V 3PH

a) What voltage is already available from the RPP or the busway?

b) How much power is needed (in kW) today and in the foreseeable future?

c) A small profile is important for power dense racks. Will the rPDU maintain a smaller profile throughout all power levels?

Voltage from rPDU Selector:

208/240V 1PH

120/208V 3PH

208/240V 3PH

240/415V 3PH

Amperage from rPDU Selector:

30A

35A

50A

60A

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4

What receptacle types and how many are required? Is locking important?

OPTIONS: C13, C19, CORDLOK, 5-15R, 5-20R, L5-20R, L6-20R, L6-30R

- a) C13-C14 power cords are rated for 15A in North American and 10A internationally. C19-C20 power cords are rated for 20A in North America and 16A internationally. Some equipment still requires 5-15P or 5-20P 120V cords. What power cords are used with your IT equipment?
- b) PowerLOK does not require special power cords for locking. Is it critical for your application that your power cords lock in place?
- c) PowerLOK does not give up receptacle density to gain cord locking using your own cords. Is maintaining a high receptacle count with cord locking required for your application?

C13-C14 Cord



C19-C20 Cord

5

What's the distance to the receptacle the PDU whip will connect to?

OPTIONS: 6FT and 10FT lengths are PowerLOK standards. Any length is available.

- a) Many facilities don't have raised floors which typically reduces the required rPDU whip length. A shorter cord needs to be sized correctly to manage when going overhead. Will the rPDU connect under the floor or overhead?
- b) PDUs are typically made in advance and often in other countries. A 10FT standardized cord benefits the supplier's reduction of models that need to be inventoried. PDU suppliers that optimize around build-to-order for local markets can rapidly fulfill orders for any PDU whip length requirement. What length is required for your application?

Overhead Busway



6

What plug type is required on the PDU whip?

OPTIONS: NEMA, IEC, CALIFORNIA STYLE (CS), MELTRIC

- a) Voltage and amperage determines the required rPDU plug type. What voltage and amperage is being made available to the rack?
- b) What is your power level? NEMA and IEC 309 Splash-proof (IP44) plugs are common for lower power and Watertight (IP67) plugs are common for higher power.
- c) What types of California Style plugs are available? CS8365C is the most common and is used in 35 and 50A Delta 3PH applications in the USA.

NEMA



CS8265C



IEC 309

7

When are PDU colors required?

OPTIONS: CARBON (BLACK), RED, WHITE, BLUE

- a) Should I chose a rPDU in color? PDU colors provide quick visual identification, simplifies management, saves time, and eliminates mistakes when tracing A & B feed power cables.
- b) Do rPDUs in color cost more? Most suppliers have high minimum quantity requirements and higher costs for rPDU colors. PowerLOK automates build-to-order rPDUs to optimize production and does not charge more for colors.

R

Reliability Questions

Reliability at higher power. TUV vs UL.

- a) Are higher powered C19-C20 server connections required? More power draw per receptacle has become common. PowerLOK machine soldered connections from line input to every receptacle are 3X less likely to fail versus typical rPDUs using poor termination methods.
- b) Is TUV the same as UL? Yes, both are nationally recognized testing labs (NRTL), certified by OSHA to safety test products. Recognized under 29 CFR 1910.7, OSHA considers all NRTLs equivalent in their ability to certify product to standards.