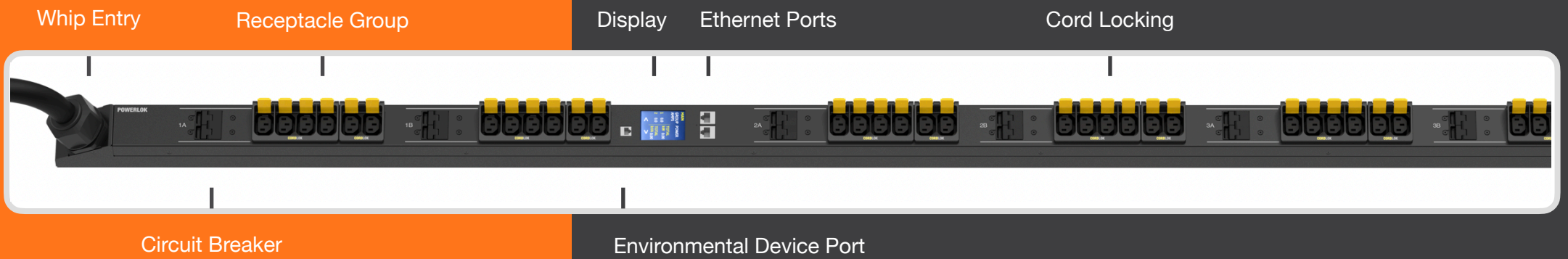


POWERLOK 80A rPDU



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 and are battery-less sensors important?

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

PDU Type from PDU 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) What is the rack height in U-space that the PDU is mounting to? *72" PowerLOK PDUs fit all 42U racks.*

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

d) Do you require more power in one PDU footprint? *For higher power requirements, PowerLOK PDUs stack vertically into a single PDU footprint.*

PDU Size from PDU 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 prepared from the RPP or the busway?

b) How much power is needed (in kW) today and in the foreseeable future? *PDU power is determined by voltage*amperage.*

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

PDU Voltage from PDU Selector:

208/240V 1PH

120/208V 3PH

208/240V 3PH

240/415V 3PH

PDU Amperage from PDU Selector:

30A

35A

50A

60A

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

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

- What power cords come with or are used with your IT equipment? 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.
- Do you require power cords to be locking as critical to your operation? *PowerLOK PDUs do not require special power cords for locking.*
- Is maintaining high receptacle density with cord locking important? *PowerLOK PDUs don't give up receptacle density to gain cord locking using your own cords.*

C13-C14 Cord



C19-C20 Cord

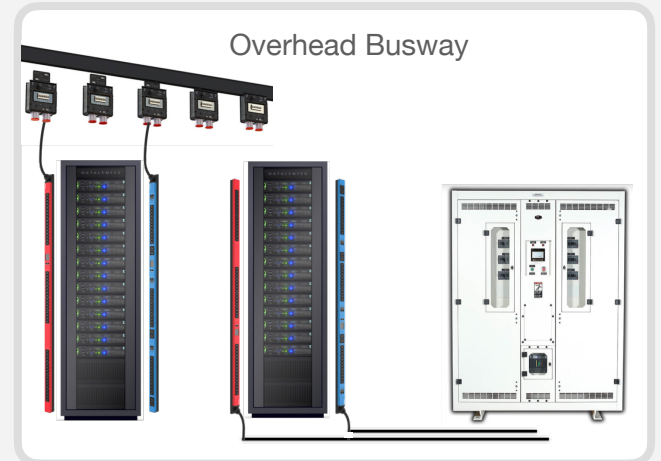
5

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.

- Will the PDU connect under the floor, on top of the rack or an overhead busway? *Many facilities don't have raised floors which typically reduces the PDU whip length required. A shorter cord that is sized correctly is much easier to manage when going overhead.*
- Why do most PDU suppliers typically have one cord length and it's often longer than what is needed? PDUs are often made in advance and sometimes 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.

Overhead Busway



6

What plug type is required on the PDU whip?

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

- What voltage and amperage standard is being made available to the rack? *Voltage and amperage determines the required rPDU plug type.*
- Do you require NEMA or IEC plugs? *NEMA plugs are most common in the USA. For higher voltage applications other types such as IEC and CS type plugs can be used.*
- What types of IEC plugs are available? *IEC 309 Splash-proof (IP44) plugs are most common and Watertight (IP67) plugs are also available.*
- 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

- Why should I choose a PDU in color? *PDU colors provide quick visual identification, simplifies management, saves time, and eliminates mistakes when tracing A & B feed power cables.*
- Do PDUs in color cost more? Often with most suppliers, there are high minimum quantity requirements and higher cost for PDU colors. PowerLOK automates build-to-order PDUs to optimize production. PowerLOK PDUs are available at no additional charge but do have a small minimum quantity requirement.

R

Reliability Questions

Reliability at higher power & TUV vs UL

- Are fewer higher powered receptacles required? *More power draw per receptacle is becoming common. PowerLOK rPDUs with machine soldered connections from line input to every receptacle are 270% less likely to fail versus insulation displacement and push-on type terminations.*
- Is TUV the same as UL? *Both are nationally recognized testing labs (NRTL) recognized by OSHA to test products to safety standards. Both are recognized under 29 CFR 1910.7. OSHA considers all recognized NRTLs to be equivalent in their ability to certify product to standards.*