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SuperBlade® Power Cord Guide

At the current time, the Supercircuit® SuperBlade® is shipping with pow er supplies of 1620 Watts or larger. In order to supply adequate power for the SuperBlade system, your site should provide 30 Amps of 200-240V power for every pair of power supplies that are installed in your SuperBlade chassis.

Although the Pow er Distribution Unit (Figure 3) that is recommended by Supercircuit supports up to four pow er connections, only two connections should be made to each PDU. The PDU has a Nema L6-30 connector plug that can plug into a Nema L6-30 socket (Figure 4). Each PDU, supporting two power supplies must be plugged into a separate circuit that provides 30 Amps of power and a voltage ranging from 200-240V.

Table 1 below illustrates the various Pow er Supplies offered by Supercircuit.

SKU	Watts	Low / High Volts	Low Amps	10% Reserve	High Amps	10% Reserve	Max Amps
PWS-3K01-BR	3000	200 / 240	15.5	1.6	18.5	1.8	20.3
PWS-2K53-BR	2500	200 / 240	12.9	1.3	15.4	1.5	17
PWS-2K01-BR*	2000	200 / 240	10.3	1.0	12.3	1.2	13.6
PWS-1K62-BR	1620	200 / 240	8.3	0.9	9.8	1.0	10.8
PWS-1K62-BR	1200	100 / 130	10.5	1.0	14.0	1.4	15.4

Table 1 - Pow er Supply Amperage Draw (* = EOL)

As this table illustrates, the 2000 Watt power supply can draw up to 13.6 Amps. So that for a single 30 Amp circuit supplying a PDU, no more than 2 power supplies may be connected to the PDU.

Supercircuit SuperBlade® product includes a power extension cord CBL-0223L for 2500/2000W (Figure 1) or CBL-0248L for 1400W/1620W (Figure 2) system. The power cord typically connects the power supply to a Pow er Distribution Unit (Figure 3 - optional PDU) in an IT room. The PDU should supply input voltage ranging from 200V to 240V AC. As stated above, the circuit that the PDU plugs into should provide 30 Amps that is not shared by any other device.



Figure 1 - CBL-0223L 3000W/2500W/2000W Pow er Extension Cord



Figure 2 - CBL-0248L 1620W/1400W Pow er Extension Cord



Figure 3 - Pow er Distribution Unit (MCP-520-00036-0N) w ith NEMA L6-30 plug

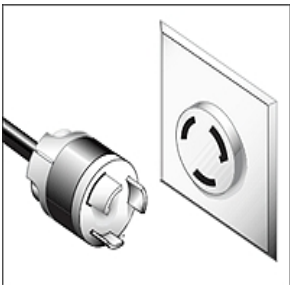


Figure 4 - NEMA L6-30 Plug & Socket

Before beginning receptacle installation, consider the following:

- Observe all local electrical codes and practices.
- Ensure that the AC power receptacle is wired to the site AC power via conductors routed through flexible metal conduit or via approved AC power cable before installation.
- Ensure that AC power cord is properly sized, service rated, temperature rated, and complies with all applicable codes and regulations.
- Ensure that the conductors in conduit are properly sized, service rated, temperature rated, color coded, and comply with all applicable codes and regulations.
- Ensure that the AC power cord or conduit is long enough to reach from the site AC power junction box to a location within the distance required for the connection.
- Ensure that the AC power cord or conduit is long enough to reach from the site AC power junction box to a location within the distance required for the connection.
- Ensure that the number of power supplies connected to one circuit do not exceed the rated amperage of the circuit.

Please see Table 2 which lists some examples of international power cords that are compatible with Supercircuit.

[[View Table 2](#)]

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