

NETSURE™ RDB SERIES

48V Zero Rack Unit Power Distribution



KEY FEATURES

- Vertical, rear mount form factor
- Plug-in input and output connections
- No tools required to maintain or move IT equipment
- Individual output circuit breakers
- Designed for up to 8.4 kW capacity (200 A maximum feed)
- Universal mounting on left or right in both top and bottom cable applications
- Three wire connection to IT equipment (positive, negative, ground)



NetSure RDB H3
Deployed in a Knürr Rack

Featuring plug-and-play connectors for simple field installation, NetSure™ RDB Series, 48V Rack Distribution Units are designed for ultimate ease of use.

Space Saving Design

When it's time to deploy DC power in your rack, a zero U, rear mount configuration keeps the most rack space available for your revenue generating equipment.

Robust, tool-less, easy to use

The NetSure RDB Series of rack PDUs is designed to handle up to an 8.4 kW load and provisioned to optimize the wire size required to each device. The result is a system that is easy to pre-configure and manage long term. Because of the plug-and-play connectivity, no special tools or expertise are needed to maintain or move IT equipment once installed.

- Quick input connectors facilitate easy installation and allow for tool-less field adjustments as layouts or requirements change.
- Each outlet is individually protected by a circuit breaker.
- Breaker trip notification is provided for added convenience when troubleshooting outages.
- Versatile PDU mounting options permit installation in any orientation.



NetSure RDB Series

Application

RACK-MOUNT SERVER APPLICATIONS

| | | | |
|-----------------|---|------------|--|
| NetSure™ RDB L6 | Low power (up to 840 W per outlet) | 6 outlets |  |
| NetSure RDB L15 | | 15 outlets |  |
| NetSure RDB M6 | Medium power (up to 1470 W per outlet) | 6 outlets |  |

BLADE SERVER OR HIGH CAPACITY SWITCH APPLICATIONS

| | | | |
|----------------|---|-----------|---|
| NetSure RDB H2 | High power (up to 3360 W per outlet) | 2 outlets |  |
| NetSure RDB H3 | | 3 outlets |  |

Ordering Information

| MODEL | PART NUMBER | NUMBER OF OUTLETS | POWER RATING PER OUTLET | | POWER RATING PER PDU | |
|------------------------------|-------------|-------------------|-------------------------|-----------------------|----------------------|-----------------------|
| | | | Max Watts | Max Amps ¹ | Max kW | Max Amps ¹ |
| RDB - Basic Rack PDUs | | | | | | |
| L6 | 547692 | 6 | 420 | 10 | 2.5 | 60 |
| | 547693 | | 630 | 15 | 3.8 | 90 |
| | 547499 | | 840 | 20 | 5.0 | 120 |
| L15 | 547694 | 15 | 420 | 10 | 6.3 | 150 |
| | 547695 | | 630 | 15 | 8.4 ¹ | 2002 |
| | 547615 | | 840 | 20 | 8.4 ² | 2002 |
| M6 | 547696 | 6 | 1,050 | 25 | 6.3 | 150 |
| | 547697 | | 1,260 | 30 | 7.6 | 180 |
| | 547503 | | 1,470 | 35 | 8.4 ² | 2002 |
| H2 | 547500 | 2 | 3,360 | 80 | 6.7 | 160 |
| H3 | 547698 | 3 | 2,100 | 50 | 6.3 | 150 |
| | 547699 | | 2,520 | 60 | 7.6 | 180 |
| | 547501 | | 2,940 | 70 | 8.4 ² | 2002 |

¹Max Amps rated at end of battery discharge (42 V).

²PDU power rating limited to 200 A, 8.4 kW each.

| ITEM | PART NUMBER | DESCRIPTION |
|-------------------------|-------------|---|
| Accessories | | |
| Rack Mounting Bracket | 547665 | Attachment point for NetSure RDB for racks without built-in mount, fits either left or right. |
| Output Cable – Low, 6' | 547595 | Output power cord for L6, L15, M6 models, 6' long, order 1 for every outlet used |
| Output Cable – Low, 10' | 555654 | Output power cord for L6, L15, M6 models, 10' long, order 1 for every outlet used |
| Output Cable – High, 4' | 547613 | Output power cord for H2, H3 models, 4' long, order 1 for every outlet used |
| Output Kit – Low | 554878 | Mating output connector and contacts for 10 AWG to 14 AWG and 12 AWG to 16 AWG wires |
| Output Kit – High | 554944 | Mating output connector and contacts for 6 AWG, 8 AWG, and 10 AWG to 12 AWG wires |
| 1/0 Input Kit * | 547668 | Mating input quick connector, 1/0 wire |
| 2/0 Input Kit * | 547669 | Mating input quick connector, 2/0 wire |
| 3/0 Input Kit * | 547670 | Mating input quick connector, 3/0 wire |
| 4/0 Input Kit * | 547671 | Mating input quick connector, 4/0 wire |

* Select (1) per PDU, depending on input wire size.



Input Quick Connector



Quick Connect Plug and Output Breaker



Output Cables

Technical Specifications

| MODEL | | L6 | | | L15 | | | M6 | | |
|--|-------------------------------|--|--------|--------|--|---------------------|---------------------|--|--------|---------------------|
| Part Number | | 547692 | 547693 | 547499 | 547694 | 547695 | 547615 | 547696 | 547697 | 547503 |
| OUTPUT | | | | | | | | | | |
| Nominal Voltage | | -54 VDC | | | -54 VDC | | | -54 VDC | | |
| Power Rating per Outlet | Power, Maximum | 420 W | 630 W | 840 W | 420 W | 630 W | 840 W | 1050 W | 1260 W | 1470 W |
| | Current, Maximum ¹ | 10 A | 15 A | 20 A | 10 A | 15 A | 20 A | 25 A | 30 A | 35 A |
| Power Rating per PDU | Power, Maximum | 2.5 kW | 3.8 kW | 5.0 kW | 6.3 kW | 8.4 kW ² | 8.4 kW ² | 6.3 kW | 7.6 kW | 8.4 kW ² |
| | Current, Maximum ¹ | 60 A | 90 A | 120 A | 150 A | 200 A ² | 200 A ² | 150 A | 180 A | 200 A ² |
| Number of Outlets | | 6 | | | 15 | | | 6 | | |
| Overload Protection | | Breaker for Each Outlet | | | Breaker for Each Outlet | | | Breaker for Each Outlet | | |
| Outlet Breaker Size | | 10 A | 15 A | 20 A | 10 A | 15 A | 20 A | 25 A | 30 A | 35 A |
| Quick Connect Type | | Anderson PP45 | | | Anderson PP45 | | | Anderson PP45 | | |
| ¹ Max Amps rated at end of battery discharge (42 V). | | | | | | | | | | |
| ² PDU power rating limited to 200 A, 8.4 kW each. | | | | | | | | | | |
| INPUT | | | | | | | | | | |
| Nominal Voltage | | -54 VDC | | | -54 VDC | | | -54 VDC | | |
| Voltage Range | | -36 VDC to -70 VDC | | | -36 VDC to -70 VDC | | | -36 VDC to -70 VDC | | |
| Input Connections | | Single Feed | | | Single Feed | | | Single Feed | | |
| Cord Length | | 6' (1.8 m) | | | 6' (1.8 m) | | | 6' (1.8 m) | | |
| Quick Connect Type | | Anderson SB350 | | | Anderson SB350 | | | Anderson SB350 | | |
| Note: All NetSure™ RDB Series PDUs are designed for up to 200 A input. | | | | | | | | | | |
| PHYSICAL | | | | | | | | | | |
| Height, Maximum | | 15.9" (405 mm) | | | 31.6" (803 mm) | | | 15.9" (404 mm) | | |
| Width, Maximum | | 3.0" (76 mm) | | | 3.0" (76 mm) | | | 3.9" (99 mm) | | |
| Depth, Maximum | | 3.1" (79 mm) | | | 3.1" (79 mm) | | | 3.1" (79 mm) | | |
| Shipping Weight | | 16 lbs. (7.3 kg) | | | 25 lbs. (11.4 kg) | | | 17 lbs. (7.7 kg) | | |
| Form Factor | | Vertical | | | Vertical | | | Vertical | | |
| Color | | Black | | | Black | | | Black | | |
| OPERATING ENVIRONMENT | | | | | | | | | | |
| Temperature | | 23 °F to 104 °F (-5 °C to 40 °C) | | | 23 °F to 104 °F (-5 °C to 40 °C) | | | 23 °F to 113 °F (-5 °C to 45 °C) | | |
| Humidity, Relative | | 5% to 95% | | | 5% to 95% | | | 5% to 95% | | |
| Elevation | | 0 ft. to 10000 ft. (0 m to 3000 m) | | | 0 ft. to 10000 ft. (0 m to 3000 m) | | | 0 ft. to 10000 ft. (0 m to 3000 m) | | |
| CONFORMANCE | | | | | | | | | | |
| Regulatory Approvals | | UL 60950-1 + UL 1801 Recognized (cURus) + CE marking | | | UL 60950-1 + UL 1801 Recognized (cURus) + CE marking | | | UL 60950-1 + UL 1801 Recognized (cURus) + CE marking | | |
| Standard Warranty | | 1 year | | | 1 year | | | 1 year | | |

Technical Specifications

| MODEL | | H2 | | H3 | |
|---|-------------------------------|---|--|---|---------------------------|
| Part Number | | 547500 | | 547698 | 547699 547501 |
| OUTPUT | | | | | |
| Nominal Voltage | | -54 VDC | | -54 VDC | |
| Power Rating per Outlet | Power, Maximum | 3360 W | | 2100 W | 2520 W 2940 W |
| | Current, Maximum | 80 A | | 50 A | 60 A 70 A |
| Power Rating per PDU | Power, Maximum | 6.7 kW | | 6.3 kW | 7.6 kW 8.4kW ² |
| | Current, Maximum ¹ | 160 A | | 150 A | 180 A 200 A ² |
| Number of Outlets | | 2 | | 3 | |
| Overload Protection | | Breaker for Each Outlet | | Breaker for Each Outlet | |
| Outlet Breaker Size | | 80 A | | 50 A | 60 A 70 A |
| Quick Connect Type | | Anderson PP75 | | Anderson PP75 | |
| ¹ Max Amps rated at end of battery discharge (42 V). ² PDU power rating limited to 200 A, 8.4 kW each. | | | | | |
| INPUT | | | | | |
| Nominal Voltage | | -54 VDC | | -54 VDC | |
| Voltage Range | | -36 VDC to -70 VDC | | -36 VDC to -70 VDC | |
| Input Connections | | Single Feed | | Single Feed | |
| Cord Length | | 6' (1.8 m) | | 6' (1.8 m) | |
| Quick Connect Type | | Anderson SB350 | | Anderson SB350 | |
| Note: All NetSure™ RDB Series PDUs are designed for up to 200 A input. | | | | | |
| PHYSICAL | | | | | |
| Height, Maximum | | 10.6" (270 mm) | | 10.6" (270 mm) | |
| Width, Maximum | | 2.6" (66 mm) | | 3.4" (86 mm) | |
| Depth, Maximum | | 3.3" (84 mm) | | 3.3" (84 mm) | |
| Shipping Weight | | 15 lbs. (6.8 kg) | | 17 lbs. (7.7 kg) | |
| Form Factor | | Vertical | | Vertical | |
| Color | | Black | | Black | |
| OPERATING ENVIRONMENT | | | | | |
| Temperature | | 23 °F to 113 °F (-5 °C to 45 °C) | | 23 °F to 113 °F (-5 °C to 45 °C) | |
| Humidity, Relative | | 5% to 95% | | 5% to 95% | |
| Elevation | | 0 ft. to 10000 ft. (0 m to 3000 m) | | 0 ft. to 10000 ft. (0 m to 3000 m) | |
| CONFORMANCE | | | | | |
| Regulatory Approvals | | UL 60950-1 + UL 1801 Recognized (cURus) + CE marking | | UL 60950-1 + UL 1801 Recognized (cURus) + CE marking | |
| Standard Warranty | | 1 year | | 1 year | |