# Matrix 300™

## High Density DC Power Distribution System



- 1RU 19"/23" compact power distribution system

- A/B isolated input version features 8A and 8B Slimline circuit breaker positions (16 total, 100A rated per socket)

- 300A per bus input rating

- Circuit breaker protected outputs available via 2-hole lug landing terminal block system on rear panel (includes clear protective cover)

- Standard version includes LED front panel indicators for power input status, breaker trip alarm

- Optional integrated supervisory controller module version with LCD SmartSwitch display for voltage, current, breaker trip alarms, and Ethernet port for remote network monitoring

- Ethernet interface port option with web server and SNMP

**The Matrix 300™ family of 1RU high-density distribution panels features sixteen slimline breaker positions packed into a compact, 1RU chassis.**

With 300A of current capacity and 16 breaker positions, the Matrix 300 breaker panel family offers industry leading density. Accepting single-pole breakers rated up to 100A each, the Matrix 300 can support the majority of network loads within headends, COs, and hub sites.

To allow better visibility of power status, the Matrix 300 is available with an optional advanced supervisory controller and remote ethernet monitoring options. The supervisory controller module has a Smartswitch LCD for voltage, current, and breaker trip alarm.

Models with ethernet provide advanced monitoring capabilities including individual breaker threshold warnings.

The Matrix 300 is ideal for distribution from bulk-power rectifiers and point of use DC power systems with Alpha® battery trays for battery backup, enterprise applications, and cabinet systems.

# **Matrix 300™** High Density DC Power Distribution System Specifications

## Electrical

| | |
|---|---|
| **Voltage:** | -48VDC |
| **Input Busses:** | Dual (A/B) |
| **Load Current Per Bus:** | 300A |
| **Total Load Current:** | 300A |
| **Alarm Contacts:** | Form-C, 60VDC @ 0.5A max |
| **Circuits:** | Up to 16 (8A/8B) |
| **Maximum Input Interruption Device:** | 300A |

## Mechanical

| | |
|---|---|
| **Dimensions L x H x D** (in/mm): | 17 x 1.75 x 14.5 / 432 x 45 x 367 |
| **Weight** (lb/kg): | 15 / 7 |

## Environmental

| | |
|---|---|
| **Operating Temperature:** | 0 to 50°C |
| **Humidity:** | 0 to 95% RH non-condensing |
| **Elevation:** | -500 to 3000m |
| **Regulatory Compliance:** | **Safety:** ANSI/UL 60950-1 |

## Model Configurations

| Part Number | Description |
|---|---|
| C016-131-10 | Matrix 300 Panel; Dual A/B Input; -48VDC; (16) Breaker Positions; No Supervisory Controller (LED status indicator only); w/o Ethernet |
| C016-138-10 | Matrix 300 Panel; Dual A/B Input; -48VDC; (16) Breaker Positions; Smartswitch Supervisory Controller; Ethernet |

## Compatible Slimline Circuit Breakers

| Part Number | Description |
|---|---|
| C470-711-10 | 2A |
| C470-700-10 | 3A |
| C470-701-10 | 5A |
| C470-702-10 | 10A |
| C470-703-10 | 20A |
| C470-704-10 | 30A |
| C470-705-10 | 40A |
| C470-706-10 | 50A |
| C470-707-10 | 60A |
| C470-728-10 | 70A* |
| C470-729-10 | 80A* |
| C470-730-10 | 100* |

*Contact factory for application support for breakers rated 70A and up.