



an EnerSys® company

Alpha® Matrix C16

High-Density Connectorized DC Distribution Breaker Panel



- 1RU high-density DC distribution panel
- Dual-feed A/B bus architecture with eight outputs per bus (8A/8B)
- 16 Slimline breaker positions for medium-capacity loads
- Supports Slimline single-pole breakers up to 65 A
- Connectorized, positive-latching outputs for fast, tool-free load changes
- Robust 400 A input busbars with 2-hole lug landings
- Optional supervisory controller with Ethernet or CAN monitoring
- Removable front panel reduces nuisance trips

The Alpha® Matrix C16 panel provides sixteen connectorized outputs arranged in a dual-feed A/B bus architecture, with eight outputs on each bus (8A/8B).

Traditional telecom breaker panels rely on lug-based terminations that require specialized tools and technicians. The Alpha® Matrix C16 panel uses locking Slimline connectors to simplify installation and reduce service time. With 400 A of input capacity and support for Slimline single-pole breakers up to 65 A, the panel is optimized for medium-capacity loads in headends, central offices, and hub sites.

To allow better visibility of power status, the panel is available with an advanced supervisory controller and can be optioned with either Ethernet or CAN connectivity. The front screen of the supervisory controller displays voltage, current, and breaker trip alarms. The Ethernet option provides access to additional features including threshold warnings, network configuration, email setup, SNMP configuration, site information setup, and channel settings. With the CAN option, this information is available through EnVision™ Elite and Cordex® HP series controllers.

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Electrical	
Source Voltage	-48 VDC
Bus Architecture	Dual-feed A/B bus, eight outputs per bus (8A/8B)
Maximum Continuous Panel Capacity	320 A continuous
Total Capacity	320 A maximum
Breaker Compatibility	Slimline single-pole breakers only, up to 65 A
Alarm Contacts	Form C, 60 VDC at 0.5 A maximum
Maximum Input Interruption Device	400 A

Mechanical	
Dimensions H × W × D	1.75 × 17 × 16.5 in. (45 × 432 × 419 mm)
Net Weight	8.5 lb (3.9 kg)

Environmental	
Operating Temperature	32 to 122°F (0 to 50°C)
Relative Humidity	0 to 95% non-condensing
Elevation	Up to 9,842 ft (3,000 m)

Regulatory Compliance	
Safety	ANSI/UL 60950-1



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