

an EnerSys® company

Matrix C16™

High Density Connectorized DC Distribution Breaker Panel



- 1RU 19"/23" compact power distribution system
- Single & dual input versions available
- 400A input rating
- 16 Slimline circuit breaker positions
- Up to 70A per circuit continuous (100A peak)
- Robust, high-current input bus bars for 2-hole lugs
- Polarized, positive-latching connectorized outputs
- Removable front panel protects against nuisance trips
- Optional supervisory controller for detailed status
- Optional embedded ethernet for remote monitoring
- More flexibility & higher availability than GMT, KLM, or TPA fuses

A new addition to our popular Matrix family of 1RU high-density distribution panels, the Matrix C16™ breaker panel features sixteen connectorized outputs to allow for quick, safe, plug-and-play connection of loads.

Traditional telecom breaker and fuse panels use terminal lugs for output connections and therefore require specialized technicians to add or change loads. The Matrix C 16 panel uses locking plug-in connectors offering a significant improvement in ease of use and cost of installation. The 1RU configuration, with 400A of current capacity and 16 breaker positions, offers industry leading density. Accepting single-pole breakers rated up to 100A each, the Matrix C 16 panel

can support the majority of network loads within headends, COs, and hub sites. The internal buswork has been enlarged, adding 33% more total ampacity than our standard Matrix panel.

To allow better visibility of power status, the Matrix C16 panel is available with an 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.

Matrix C16™ High Density Connectorized DC Distribution Breaker Panel Specifications

Electrical	
Voltage:	-48VDC
Input Busses:	Single or dual (A/B)
Load Current Per Bus:	320A max. continuous
Total Load Current:	320A max. continuous
Alarm Contacts:	Form-C, 60VDC @ 0.5A max
Circuits:	Up to 16
Maximum Input Interruption Device:	400A

Mechanical	
Dimensions L x H x D (in/mm):	17 x 1.75 x 16.5 / 432 x 45 x 419
Weight (lb/kg):	8.5 / 3.9

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

Model Configurations		
Part Number	Description	
C016-1621-10	Matrix C16 Panel; Single Input; -48VDC; (16) Connectorized Breaker Positions; Smartswitch Supervisory Controller; Ethernet	
C016-1622-10	Motrix C16 Panel; Dual Input; -48VDC; (16) Connectorized Breaker Positions; Smartswitch Supervisory Controller; Ethernet	
C016-1623-10	Matrix C16 Panel; Single Input; -48VDC; (16) Connectorized Breaker Positions; Standard LED Indicators; w/o Ethernet	
C016-1624-10	Matrix C16 Panel; Dual Input; -48VDC; (16) Connectorized Breaker Positions; Standard LED Indicators; w/o Ethernet	

Accessories		
Part Number	Description	
C016-1262-10	Output Connector Kit (#6-8 AWG): (6) C545-187-10; #6-#8 AWG 100A Connector	
C016-1264-10	Output Connector Kit (#10-14 AWG): (6) C545-200-10; #10-#14 AWG 100A Connector	
C016-1317-10	Supervisory Controller (replacement only; for C016-1621-10 and C016-1622-10 models)	
C016-1318-10	Breaker Puller/Extractor Tool (replacement only)	
C016-1323-10	Embedded Ethernet Module Option for Remote Monitoring (replacement only; for C016-1621-10 and C016-1622-10 models)	
C750-171-10	90 Degree Input Lug Bracket Connection Kit (Dual Input)	
C750-175-10-B (Black Powder Coat) C750-175-10-W (White Powder Coat)	Matrix C16 Mounting Kit: Mounting kit for 19 and 23 inch rack configurations	
C750-284-10	Matrix C16 Rear Mount Support Kit w/Adjustable Lacing Bar	



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