

Smart PDU M-Type

DC Distributions



Description

The Smart PDU M-Type is a compact 1U multi-channel DC distribution suitable for applications where the load is shared with multiple tenants. Each channel has its own energy measurement and contactor for remote control management via Delta's advanced controller. There are two variants of Smart PDU M-Type DC distribution with plug-in breakers with front connection (up to 20pcs) or as bulk feed version without plug-in breakers.

The unit can be installed into 19IN rack as an additional DC distribution cooperating with power supply systems.

Delta is known for quality and product reliability – in this solution that has been combined to optimize the total cost of ownership.

Main features

- Compact size – 19IN 1U high
- Version 1
 - 4x channels
 - Up to 20pcs of plug-in breakers with front connection
- Version 2
 - 3x channels
 - Bulk feed without plug-in breakers
 - Sliding rails

Applications

- Telecom – Mobile / Wireless
 - Radio base stations / cell sites
 - LTE / 4G / WiMAX
 - 5G
- Telecom – Fixed
 - Telephony servers/switches
 - Fiber optics / FTTx
 - Microwave
- Tower companies

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Model	Smart PDU M-Type 4Ch/20Br	Smart PDU M-Type 3Ch/BF
Part number	CTEFDB2001.1001 (no breakers included)	3798106426
Product configurator	3798107261	N/A
General		
Design	Rack design, for installation on 19" standard supporters	
Number of channels	4x	3x
Number of breakers per channel	Up to 5pcs	N/A (bulk feed)
Cooling	2x PWM controlled fan, no air filter	N/A (natural cooling)
Features		
Voltage range	42-58 V	
Max distribution current rating	500 A	450 A
Max load current per channel	300 A	150 A
Input connection (rear side)	2x M6 studs (common) - negative input 2x M6 studs (common) - positive input	2x M6 studs (per channel) - negative input N/A - positive input
Load fuse rating per channel	5x (6-63 A) or 2x (6-63 A) & 2x (80-125 A)	N/A (bulk feed)
Load fuse alarm	1x per channel	N/A (bulk feed)
Partial load disconnecter	4x contactor (one per channel)	3x contactor (one per channel)
Current measuring	4x measurements (one per channel)	3x measurements (one per channel)
Control and Monitoring unit ¹⁾	Orion Touch or Orion E	
Other Specifications		
Operating temperature	-40 to +55 °C [-40 to +131 °F]	-40 to +50 °C [-40 to +122 °F]
Storage temperature	-40 to +85 °C [-40 to +185 °F]	
Relative humidity	95 %, non-condensing	
Dimensions (W x D x H)	483 x 350 x 44 mm [19 x 13.8 x 1.7 inch]	483 x 335 x 44 mm [19 x 13.2 x 1.7 inch]
Weight (excluding breakers)	Approximately 8.6 kg [19 lbs]	Approximately 9.2 kg [20.3 lbs]
Design Standards		
Electrical safety	IEC 62368-1: 2018 (3.ed), EN IEC 62386-1: 2020 + A11: 2020	
EMC	ETSI EN 300 386 v2.2.1:2022, EN 61000-6-1 /-2 /-3 /-4	
Environment	ETSI EN 300 019-2-1 (Class 1.2) /-2 (Class 2.3) /-3 (Class 3.2) Normal operating conditions as per IEC 62040-5-3:2016 clause 4.2. Other operating conditions as per IEC 62040-5-3:2016 clause 4.3, must be advised	

1) See ORION Touch controller fact sheet for details

Specifications are subject to change without notice

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