

3G DC Distribution Module - DCD1M Series



Features

- 1U High
- 19" rack mounting
- Battery & load circuits
- Easy to fit push-in circuit breakers
- Optional low voltage disconnect
- Integrated current sensor
- Cabinet or relay rack mounting

The Eaton 3G DCD1M Series of DC Distribution Module is a 1U high, 19" rack mount 48V DC distribution module, an ideal solution for converged data networks and low power telecommunications applications requiring compact, efficient and flexible DC power supplies.

The DCD1M series is available with up to two battery circuits and 10 individual load circuits. It may be used with either the Eaton 3G series of secure DC power systems or as 'standalone' for use with 3rd party equipment.

The high interrupt rating of the battery circuit breakers make the DCD1M series suitable for use as a primary protection module with a wide range of batteries.

This module features front access, easy to fit, push-in circuit breakers for ease of installation and servicing in the field.

The DCD1M is available with an optional low voltage disconnect contactor to prevent over discharging of backup batteries, an onboard current sensor and MCB trip detection monitoring for use with the Eaton 3G series of secure DC power systems.

Typical applications include providing DC distribution for customer premises equipment, roadside cabinets, converged VoIP/data networks, IP routers and small PABX's.



Powering Business Worldwide

Technical Specifications

DC Voltage Range	48V (nominal) 43V - 58V
DC Power (maximum)	4080W (85A @ 48V)
Efficiency	92% (50 – 100% Output Current) †

Output

DC Output Voltage Range	20V – 58V
DC Distribution Circuits	12-way circuit breakers (2 x Battery, 10 x Load) Circuit breaker type: magnetic/hydraulic, push fit type Battery circuit breakers: Heinemann AC1R Series Typical ranges available: 40A, 50A, 60A Interrupt rating: 5000A Load circuit breakers: Heinemann JC1S Series Typical ranges available: 5A, 10A, 20A, 30A(max)
DC Circuit Connections	Load: 10way terminal barrier strips (screw terminals, max 10AWG/4mm ² cable) Battery: Anderson Powerpole, PP45 (max 10AWG/4mm ² cable)
Polarity /Grounding	Positive ground or floating (in-field selectable)
Operating Temperature Range	-10°C to +50°C [14°F to +122°F]
Dimensions H,W,D	1U , 19" mounting*, 11" [280mm]** * Optional 23" mounting brackets available ** Additional access space is required see installation guide for details.
Weight	DCD1M-00 4.1kg [9.1lb] DCD1M-01 4.4kg [9.8lb]
System Controller	Compatible with SC200 & SC100 based systems (when LVD included, onboard current sensor and MCB trip detection features required)

Optional

Low Voltage Disconnect (LVD)	Battery disconnect: 100A internal contactor
Load Circuit Cable	CKLOAD-00 10sets, 1500mm long, 10AWG/4mm ²
Battery Input Connection Cable	CKBATT-00 2000mm long, for connection to Powerware EBM module CKBATT-01 2000mm long, for connection to generic battery
23" rack mounting brackets	621-04998-29 23" mounting bracket (2 required)
Rectifier Blank Panels	For unused rectifier positions

Part Numbers

DCD1M-00	1U, 19" rack mount DCD distribution module.
DCD1M-01	1U, 19" rack mount DCD distribution module. c/w low voltage disconnect and onboard current sensor

Certifications

All products comply with international standards.

North America	UL (Canada, USA)
Europe	CE

In the interests of continual product improvement all specifications are subject to change without notice.

