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.
## Technical Specifications

**DC Voltage**
- 48V (nominal)

**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
- **Battery:** Anderson Powerpole, PP45 (max 10AWG/4mm² cable)

### Polarity/Grounding

- Positive ground or floating (in-field selectable)

### Operating Temperature Range

- -10°C to +50°C [14°F to +122°F]

### Dimensions

- **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/4mm² cable

- **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.
  - c/w low voltage disconnect and onboard current sensor

- **DCD1M-01**
  - 1U, 19" rack mount DCD distribution module.

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**Certifications**

All products comply with international standards.

<table>
<thead>
<tr>
<th>Region</th>
<th>Certification</th>
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<tbody>
<tr>
<td>North America</td>
<td>UL (Canada, USA)</td>
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<tr>
<td>Europe</td>
<td>CE</td>
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In the interests of continual product improvement all specifications are subject to change without notice.