

DV2 - 3G Core Power Solutions

North American Models



48V integrated systems up to 750kW

The **Eaton® Data-Voice-Video Core Power Solutions** range of DC power systems are designed for telecommunications network applications requiring high powered, efficient and flexible DC power supplies.

These DC power systems use Eaton CR48-3G rectifier modules and include an integral AC and DC distribution with flexible combinations of fuses and MCBs, and an SC200 system controller. Low voltage disconnect (LVD) options are also available. DC distribution cabinets can be connected in parallel where additional distribution space is required. Maximum rectifier capacity is 92.8kW, with additional cabinet(s) required for greater capacity. Systems up to 15,000A can be configured using external busbars.

Intelligent system management features include battery temperature compensation, fast

charge, battery current limit, automatic equalize charging and automatic battery condition monitoring.

Typical applications are providing 48V standby power for centralized architecture such as local and central office switches and other large switch installations, wireless switching centers, long-distance transmission systems and data centers.

Eaton DV2 Core Power Solutions are pre-configured for fast installation and set-up. All system settings are fully adjustable in software and stored in transferable configuration files for repeatable one-step system set-up.

Typical Applications

- Wireless MSC sites (CDMA/GSM/3G UMTS)
- Local and central office switching
- Point of presence (POP) sites
- Data centers

Features

- Intelligent system management features
- Pre-configured software
- High power density
- Fast on-line expansion of rectifiers (hot-swap)
- High efficiency and unity power factor
- Range of DC distribution configurations
- Battery condition monitoring
- Wide AC input voltage range
- Seismic rated cabinet
- Remote monitoring and control
- Full length security door (optional)



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Technical Specification

Input

| | |
|-------------------|---|
| Nominal AC Supply | 3P+PE, Δ 208Vac 3P+N+PE, Y 230/400Vac, 277/480Vac 50/60Hz |
| Power Factor | >0.99* (20 – 100% Maximum System Current) |
| Efficiency | up to 92%* |

Output

| | |
|-------------------------|----------------|
| DC Output Voltage Range | 40 – 58V |
| Typical DC Output Power | 46kW - 750kW † |

Environmental

| | |
|-----------------------------|----------------|
| Operating Temperature Range | -25°C to +40°C |
|-----------------------------|----------------|

Mechanical

| | |
|------------------|---|
| Dimensions H,W,D | 2200mm [86"], 600mm [23.6"], 600mm [23.6"] |
| Weight | 200kg [443lb] Typical configuration with 16 CR48-3G rectifier modules. |

System

| | |
|-------------------|-------|
| System Controller | SC200 |
|-------------------|-------|

* Refer to rectifier data sheet for full details
† Up to 92.8kW in a single cabinet

Options

| | |
|------------------------------|--|
| AC Distribution | Rectifier MCBs |
| DC Distribution | DCM2000 – bullet breakers up to 250A per circuit. DCB1000 – high current circuit breakers up to 600A per circuit. DCF0208 – 2U fuse panel, 2xTPL fuses up to 800A each. DCF0408 – 4U fuse panel, 4xTPL fuses up to 800A each. |
| Low Voltage Disconnect (LVD) | Single or dual LVD can be configured as battery or load disconnect including non-priority load disconnect. |
| Rectifier Blank Panels | For unused rectifier positions |
| SiteSure | Input/output modules to monitor and control external equipment |

Software

| | |
|-------------|---|
| Power Xpert | Remote control and monitoring software |
| DCTools | Configuration Software. Free download from www.powerware.com/downloads |

Certifications

All products comply with International Standards. Contact your local Eaton DC representative for details on the specific product versions available with these safety and EMC approvals:

| | |
|-------------------------|-----------------------------------|
| Europe | CE |
| Australia / New Zealand | C-tick, Seismic rating to NZS4203 |

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

