

DV2-3G Metro Power Solutions (UL Listed)



48Vdc systems up to 600A maximum load current.

24Vdc systems up to 500A maximum load current.

Eaton DV2-3G Metro Power Solutions are ideal for low to medium power telecommunications applications requiring compact, efficient and flexible DC power. Typical applications include standby DC power for customer premises equipment, outdoor shelters, VoIP, PABX, data networks and IP routers.

The DV2-3G Metro series has up to 40kW of output for load and battery recharge. It features state-of-the-art Access 3G, or Energy Saver rectifiers, an integral DC distribution panel with easy to fit plug-in hydraulic magnetic circuit breakers, and optional low voltage disconnects (LVD) for battery and non priority loads. Each cabinet has fitted integrated battery shelves for up to 4 strings of 48V, or 8 strings of 24V, high capacity VRLA batteries. Optional battery cabinets for extended back-up time are also available.

A technician friendly user-interface includes a full color menu screen and is pre-configured for fast installation and easy commissioning. System settings are fully adjustable in software and stored in transferable configuration files for repeatable one-step system set-up.

The advanced SC200 system controller offers high-level communications capability for real time information, including an Ethernet port for connecting directly to the Internet. It also has built-in intelligence for optimizing system efficiency, and comprehensive alarm and system status notifications, which are all designed to minimize operational expenses.

Other features include temperature compensated voltage output, automated equalize charging, and integrated battery testing, for maximum battery life under a wide range of environmental conditions.



Powering Business Worldwide

Features

- High power density.
- High efficiency and unity power factor.
- Fast on-line expansion of rectifiers (hot-swap).
- Integrated batteries.
- Low voltage disconnects for battery and non priority loads.
- Easy fit plug-in hydraulic/magnetic circuit breakers.
- Flexible AC input.
- Intelligent system management features.
- Pre-configured software for quick & simple deployment.
- Automatic battery condition testing.
- Remote access (TCP/IP, web browser, SNMP).
- Energy management software optimizes operating efficiency for lower OPEX.
- All cabling top entry with optional rear cable duct extension for raised floor cable access.

Technical Specification

Input

AC Supply Voltage*	North America: 3P 208Vac nominal 2P 240Vac nominal
	Global: 3P + N 230/400Vac nominal 1P + N 230Vac nominal
AC Input Frequency	50/60 Hz

System

Rectifier Module*	APR24-3G	APR48-3G	APR48-ES
Nominal Output Voltage	24Vdc	48Vdc	48Vdc
Output Voltage range	20–30Vdc	40–58Vdc	40–58Vdc
Max Number of Rectifiers	10	20	20
Maximum DC Power†	14.4kW	36kW	40kW
Maximum Load Current	500A	600A	600A
Efficiency	>91%	>92%	>96%

† Maximum DC power includes load and battery recharge.

Supervisory Module	SC200
Communications	10 baseT Ethernet port, web server, SNMP agent
Batteries	Type: Front access VRLA 48V: Up to 600Ahr per cabinet using four strings of 150Ahr batteries. 24V: Up to 1200Ahr per cabinet using eight strings of 150Ahr batteries.
Extension Battery Cabinets	Up to six extension battery cabinets fitted with either four strings of 48V or eight strings of 24V in each cabinet

DC Distribution

Load circuit Breakers	20-way total
Single Width Circuit Breakers	Heinemann AMIR Series 5A, 10A, 20A, 30A, 40A, 50A, 70A, 80A, 100A
Dual Width Circuit Breakers	Heinemann AMIP 120A, 150A, 200A
Triple Width Circuit Breakers	Heinemann AMIP 250A
Battery Circuit Breakers	Heinemann AM1P, 200A integrated into battery shelf
Low Volt Disconnect Options	1 x battery disconnect, 1 x 400A non-priority load (10 positions for non priority, 10 positions for priority).

Mechanical

Dimensions H,W,D	2000mm [78.7"], 600mm [23.6"], 600mm [23.6"]
With rear cable duct extension H,W,D	2000mm [78.7"], 600mm [23.6"], 750mm [29.6"]
Weight	DV2-A20B-xxxx: 900kg [1980lb] typical maximum with 20 rectifier modules and 4 x 48V/150Ah battery strings.

Environ-mental

Operating Temperature Range	-25°C [-13°F] to 40°C [104°F]*
Humidity	<95% non-condensing
Altitude	<2000m (6500'). Thermally de-rates above this altitude, to a maximum altitude of 4000m

Certifications

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

North America: UL Listed 1801, cUL, FCC

*Refer to rectifier specifications for more information. System capacity will vary depending on number of rectifiers and batteries selected.

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

