

3G Access Power Solutions - APS12 Series



48V secure power up to 21.6kW

The **Eaton® 3G Access Power Solutions** are ideal for low to medium power telecommunications applications, offering compact, efficient, flexible and reliably secure DC power supply.

This 19" rack mount system is available with up to 12 of the 48V Eaton 3G Access Power Rectifier modules with output up to 450A.

The systems also include an integral DC distribution panel and the versatile SC200 series of system controller with Ethernet, GSM cellular (including text messaging), standard modem and TCP/IP communications options. The SC100 system controller is also available.

Other features include temperature compensated voltage output for better battery life, a wide range of circuit breaker configurations and optional low voltage disconnect (LVD) modules.

Typical applications include providing secure power for cellular base stations, roadside terminals, data networks and IP routers.

The 3G Access Power Solutions are pre-configured and all system settings are fully adjustable in software and stored in transferable, configuration files for repeatable and quick one-step system set-up.

Features

- Compact 9U, 19" sub-rack
- Up to 12 rectifier modules
- Pre-configured software
- High power density (450A/9U)
- Dual AC input
- Fast on-line expansion of rectifiers (hot-swap)
- High efficiency and unity power factor
- Priority and non priority options for DC distributions



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Technical Specifications

Input

AC Supply	100 – 240V, 50 – 60Hz (nominal) 175 – 275V full power output upto 50°C [122°F] 90 – 175V reduced power output Dual AC input - 1Ø, 2Ø or 3Ø (one supply feed per 6-rectifier shelf)
Power Factor	>0.99 (50 – 100% Output Current) †
Efficiency	92% (50 – 100% Output Current) †

Output

DC Output Voltage Range	43 – 58V
DC Output Power (maximum) †	21.6kW @ 48V

Environmental

Operating Temperature Range	-40°C to +70°C [-40°F to +158°F] Output current is derated above 50°C [122°F] and below -10°C [14°F]
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Mechanical

Dimensions H,W,D	9U, 19" mounting, 306mm [12"]* <i>* Additional clear space is required for exhaust air.</i>
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System

System Controller	SC200 or SC100
DC Distribution Module	20-way circuit breakers (4 x Battery, 16 x Load)
Communication Features	USB direct 10BaseT Ethernet, TCP/IP, SNMP, On board web server RS232 to external PSTN or GSM modem (modem not included)
Low Voltage Disconnect (LVD)	Optional battery LVD, or non priority LVD, or battery and non priority LVD's. (Contactors 400A rated)
Rectifier Blank Panels	For unused rectifier positions
Options	External Surge Protection

† System power factor, efficiency and output power will vary depending on rectifiers and batteries selected. Refer to rectifier data sheet for more information.

Software

DCTools	Configuration software. Free download from: www.powerware.com/downloads
PowerManagerII	Remote control and monitoring software

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

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

