

3G Access Power Solutions - APS6-600 Series



Features

- 19" sub-rack
- Compact 6U system
- Up to 6 rectifier modules
- Pre-configured software
- High power density (48V: 360A, 6U, 19")
- Multiple AC option (1Ø, 3Ø, 2Ø)
- Fast on-line expansion of rectifiers (hot-swap)
- High efficiency and unity power factor
- Priority and non priority options for DC distributions
- Compatible with Eaton's Network Energy Saver (ES) Rectifier

48V secure DC power up to 18kW.

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

This 19" rack mount system is available with up to 6 of the Eaton 3G, NPR48-ES Network power rectifier modules with a total output up to 360A. For superior operating efficiency to further reduce operating costs, this system is offered as standard with Eaton Energy Saver (ES) Network power rectifier which provides operating efficiency in excess of 96%.

The systems include an integral DC distribution panel with a range of MCB and Low Voltage Disconnect (LVD) options available.

The SC200 series of system controller offers highly advanced control and monitoring features including Smart Alarms – a configurable logic for automated site energy control. The SC200 also offers a complete array of communications options with Ethernet, GSM cellular (including text messaging), standard modem and TCP/IP communications options. The slightly lower specification SC100 is also available.

Typical applications include providing secure power for customer premises equipment, 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.



Technical Specifications

Input

AC Supply†	100 – 240V, 50 – 60Hz (nominal) 185 – 275V full power output up to 50°C [122°F] 90 – 185V reduced power output
Power Factor†	>0.99 (50 – 100% Output Current)
Efficiency†	NPR48-ES : >96% peak, >95% (20% to 100% load, 230Vac)

Output

DC Output Voltage Range	43.2-57.5V
DC Output Power (maximum)*	48V: 18kW * Ratings are stated without LVDs fitted. In some cases lower ratings may result when LVDs are used. Refer to installation guide for detailed load specs and MCB derating factors.

Environmental

Operating Temperature Range*	-40°C to +70°C [-40°F to +158°F] * Refer to rectifier data sheet for more information. Output current is derated above 50°C [122°F] and below -10°C [14°F]
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Mechanical

Dimensions H,W,D	6U, 19" mounting, 335mm [13.2"]* * Additional clear space is required for exhaust air.
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System

System Controller	SC200, Option for SC100
DC Distribution Module	20-way circuit breakers (4 x battery, 16 x load)
Communication Features	USB direct* 10BaseT Ethernet*, TCP/IP*, SNMP*, Modbus-TCP*, Modbus-RTU* and on board web server* RS232 to external PSTN or GSM modem (modem not included) *SC200 only
Low Voltage Disconnect (LVD)	Optional 400A LVDs for battery or load, or both.
Rectifier Blank Panels	For unused rectifier positions
Options	External Surge Protection

† Power factor, efficiency, AC voltage range and output power are dependent on the rectifier module. Refer to the rectifier data sheet for more information.

Software

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

Certifications

CE

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



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