

3G Access Power Solutions - APS3 and APS6 Series



Features

- 19" sub-rack
- Modular 3U and 6U options
- Up to 6 rectifier modules
- Pre-configured software
- High power density (24/48V: 300/250A, 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 Energy Saver (ES) Rectifiers



24V and 48V secure DC power up to 8.64kW and 12kW respectively.

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.

These 19" rack mount systems are available with up to 3 or 6 of the Eaton 3G Access power rectifier modules as either 24V or 48V with output up to 300A. For superior operating efficiency to further reduce operating costs, these systems are also compatible with Eaton Energy Saver (ES) Access power rectifiers 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.

These systems also feature Load Based Rectifier Shutdown (LBRS) capability. LBRS ensures the highest possible system operating efficiency over a wide range of loads.

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.

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Technical Specifications

Input

AC Supply†	100 – 240V, 50 – 60Hz (nominal) 175 – 275V full power output up to 50°C [122°F] 90 – 175V reduced power output
Power Factor†	>0.99 (50 – 100% Output Current)
Efficiency†	APR48-3G : 92% (50 – 100% Output Current) APR48-ES : >96% peak, >95% (20% to 100% load, 230Vac)

Output

DC Output Voltage Range	21.5V – 32V / 43-57.5V	
DC Output Power (maximum)†*	APS3-300	48V: 6.0kW 24V: 4.32kW
	APS6-300	48V: 10.8kW
	APS6-500	48V: 12.0kW 24V: 8.64kW

* Ratings are stated without LVD's fitted. In some cases lower ratings may result when LVDs are used.

Environmental

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

Mechanical

Dimensions H,W,D	APS3-300: 3U, 19" mounting, 306mm [12"]* APS6-300: 6U, 19" mounting, 306mm [12"]* APS6-500: 6U, 19" mounting, 306mm [12"]*
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* Additional clear space is required for exhaust air.

System

System Controller	SC200 or SC100	
DC Distribution Module	APS3-300:	12-way circuit breakers (2 x battery, 10 x load)
	APS6-300:	20-way circuit breakers (4 x battery, 16 x load)
	APS6-500:	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)	APS3-300:	optional battery LVD
	APS6-300:	optional 200A LVD's for battery or load, or both.
	APS6-500:	optional 400A LVD's 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 is dependant on rectifier module fitted. 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

All products comply with international standards.

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

