Access Power Solutions - APS9 Series 8

48 V secure DC power up to 27 kW.

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

This 19" rack mount system is available with up to 9 of the Eaton 3 kW 48 V High Density rectifier modules with output up to 562 A. For superior operating efficiency to further reduce operating costs, these systems are also compatible with Eaton 2 kW Energy Saver (ES) and 3G Access Power (APR) rectifiers. The rectifiers can provide operating efficiencies nearing 97%.

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

The SC300 series of system controller offers highly advance control and monitoring features including Smart Alarms – a configurable logic for automated site energy control. The SC300 also offers a complete array of communications options with Ethernet, 3G/4G cellular (including text messaging), standard modem and TCP/IP communications options.

Typical applications include providing secure power for mobile base stations, fibre and data networks and large IP routers. The 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

- 19" sub-rack
- Modular 6U
- Up to 9 rectifier modules
- Pre-configured software
- High power density (48 V: 562 A, 6U, 19")
- AC power (3Ø)
- Fast on-line expansion of rectifiers (hot swap)
- High efficiency (nearing 97%) and unity power factor
- Priority and non-priority options for DC distributions
- Compatible with Eaton HDR Energy Saver (ES) Rectifiers

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Technical Specifications

Input

AC Supply†	100 – 240 V, 50 – 60 Hz (nominal) 175 – 275 V full power output up to 50°C [122°F] 90 – 175 V reduced power output
Power Factor†	>0.99 (50 – 100% Output Current)
Efficiency†	HDR48-ES: ~97% peak, APR48-ES: >96% peak, APR48-3G: 92% (50 – 100% Output Current)

Output

DC Output Voltage Range	43-57.5 V
DC Output Power (maximum)*	APS9-800 48 V: 27.00 kW, 562A *Ratings are stated with HDR48-ES modules fitted. In some cases, lower ratings may result when other rectifier modules 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]*

Mechanical

Dimensions H,W,D	APS9-800: 6 U, 19" mounting, 335 mm [13.2"]* *Additional clear space is required for exhaust air and cable access.*

System

System Controller	SC300
DC Distribution Module	APS9-800: 19-way circuit breakers (5 x battery, 14 x load)
Communication Features	USB direct 100BaseT Ethernet, TCP/IP, SNMP, Modbus-TCP, Modbus-RTU and onboard web server RS232 to external PSTN or 3G/4G modem (modem not included)
Low Voltage Disconnect (LVD)	APS9-800: optional 600A LVD's for battery or load, or both.
Rectifier Blank Panels	For unused rectifier positions
Options	External Surge Protection

Software

DCTools	Configuration software. Free download from: www.eaton.com
Visual Power Manager	Remote monitoring software

Certifications

All products comply with international standards.

† Power factor, efficiency, AC voltage range and output power is dependant on rectifier module fitted. Refer to the rectifier data sheets for more information.

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

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