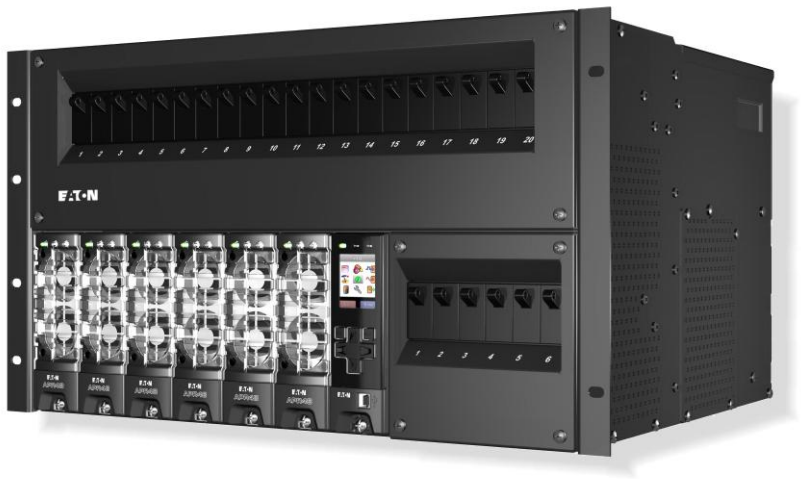
3G Access Power Solutions - APS6-400 Series



Features

- High power density (12kW @ 48V/6U, 19")
- Suitable for both 19" relay rack or enclosed cabinet
- High efficiency and unity power factor
- Easy fit plug-in hydraulic/magnetic circuit breakers.
- 20-way load and 6-way battery distributions
- Single or dual low voltage disconnect (LVD) options
- SC200 or SC100 intelligent system controller
- Onboard energy management software optimizes operating efficiency for lower OPEX
- Pre-configured software for quick & simple deployment
- Remote access (TCP/IP, web browser, SNMP)
- Easy plug-and-go rectifier set-up
- Fast on-line rectifier expansion (hot-plug)

ENERGY SAVER VERIFIED SOLUTION

The **Eaton® 3G Access Power Solutions** are ideal for low to medium power telecommunications applications requiring compact, efficient and flexible DC power supplies with or without batteries. Typical applications include standby DC power for customer premises equipment, outdoor power plants, data networks and IP routers.

A technician friendly user-interface includes a full color menu screen and is preconfigured for fast install and easy commissioning.

The 19" rack mount system is ideal for rapid deployment into customer facilities or enclosures.

All system settings are fully adjustable in software and stored in transferable configuration files for repeatable one-step system set-up.

The APS6-400 series has up to 12kW of power output, it features state-of-the-art 48 volt 3G Access Power Rectifiers, an integral DC distribution panel, easy to fit plug-in hydraulic magnetic circuit breakers, and optional low voltage disconnect (LVD) modules for battery and non priority loads.

The advanced system controller offers high-level communications capability for real time information. 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

Technical Specifications

Input

AC Supply†	Nominal:	120V, 208-240V
	Operating Range:	90V – 275V*
	** Output power derates below 175V AC.*	
Power Factor†	>0.99 (50 – 100% Output Current)	
Efficiency†	By system rectifier type: APR48-ES: >95% (20 - 100% output current) APR48-3G: 92% (50 - 100% output current)	
Total Harmonic Distortion	<5% THD from 50% to 100% at load.	

Output

DC Output Voltage Range	43 – 57.5V		
DC Output Power (maximum)	Rectifier type:	**APR48-3G**	**APR48-ES**
	110/120V AC:	6.6kW @ 48V	6.9kW @ 48V
	208-240V AC:	10.8kW @ 48V	12kW @ 48V

Environmental

Temperature Range	Rated: -10°C to +45°C [14°F to +122°F]

Mechanical

Dimensions H,W,D	6U [10.5", 267mm], 19" [483mm] mounting, 15.3" [390mm]* ** Additional clear space is required for exhaust air. Rear access is required for cable terminations.*

System

System Controller	SC200 as standard. SC100 optional.
DC Distribution Module	26-way circuit breakers (6 x Battery, 20 x Load). Load circuit breakers: Heinemann AMIR Series 5A,10A, 20A, 30A, 40A, 50A, 70A, 80A, 100A, 120A (2-pole). Battery circuit breakers: 6 x Heinemann AMIR 80A, 100A or 3 x Heinemann AMIP 120A, 150A, 200A.
Communication Features of SC200	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 disconnect: 400A internal. Non priority load: 200A internal.
Rectifier Blank Panels	For unused rectifier positions.
Options	Relay Rack Batteries.

† *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

North America:	UL listed 1801, cUL, FCC

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

RoHS COMPLIANT

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Email: dc.info@eaton.com
Internet: www.eaton.com/dcpower