

Enterprise Power Solutions - EPS2 Series



The Eaton® Enterprise Power Solutions are the ideal solution for converged data networks and low power tele-communications applications requiring compact, efficient and flexible DC power supplies.

This EPS2 series is a 19" rack mounted system and is available with up to two of the Eaton Enterprise or Access 48V rectifier modules providing a total output of up to 4000W.

The versatile SC300 system controller features a front access USB port for ease of system setup along with a RS232 rear port and a 100BaseT Ethernet port for remote networking and communications.

Communication features of the SC300 system controller include TCP/IP, SNMP and an onboard web server allowing access with standard web browsers.

The Enterprise systems include an integral DC distribution panel with easy to fit push-in circuit breakers and low voltage disconnect contactor to prevent over discharging of the optional backup batteries.

Typical applications include providing secure power for customer premises equipment, roadside cabinets, converged VoIP/data networks, PoE, IP routers and small PABX's.

Features

- 19" rack mounting
- High power density
- Intelligent system controls
- Pre-configured software
- Onboard secure web server
- Push-in easy to fit circuit breakers
- Low voltage disconnect
- Fast on-line expansion of rectifiers (hot-swap)
- High efficiency and unity power factor
- Easy to use menu & full color display
- Optional batteries
- Compatible with Eaton's Energy Saver (ES) rectifier



Powering Business Worldwide

Technical Specifications

Input

AC Supply	Nominal: 120V, 240V Operating Range: 90V – 275V
Power Factor †	>0.99 (50 – 100% Output Current)
Efficiency †	>96% peak >95% (20% to 100% load, 230Vac)

Output

DC Output Voltage Range	43 – 57.5V	
DC Output Power (maximum*) †	240V AC:	APR48-ES: 4.0kW APR48-3G: 3.6kW EPR48-3G: 1.8kW
	120V AC:	APR48-ES: 2.3kW APR48-3G: 2.2kW EPR48-3G: 1.1kW

* Based on two rectifiers fitted, refer to rectifier data sheets.

Environmental

Operating Temperature Range	Rated: -10°C to +50°C [-14°F to +122°F] Extended*: -40°C to +70°C [-40°F to +158°F]
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*Output current is derated above 50°C [122°F]

Mechanical

Dimensions H,W,D	2U , 19" mounting, 14.1" [360mm]*
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* Additional clear depth space is required for exhaust air.

System

System Controller	SC300
DC Distribution Module	12-way circuit breakers (2 x Battery, 10 x Load) Circuit breaker type: Magnetic/Hydraulic, push fit
	Battery circuit breakers: Heinemann AC1R Series Typical ranges available: 30A, 40A, 50A, 60A, 70A
	Load circuit Breakers: Heinemann JC1S Series Typical ranges available: 6A, 10A, 15A, 20A, 25A, 30A
Communication Features	USB direct 100BaseT Ethernet, TCP/IP, SNMP, Modbus-TCP, Modbus-RTU and on board web server RS232 to external PSTN or GSM modem (modem not included)
Rectifier Blank Panels	For unused rectifier positions

Software

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

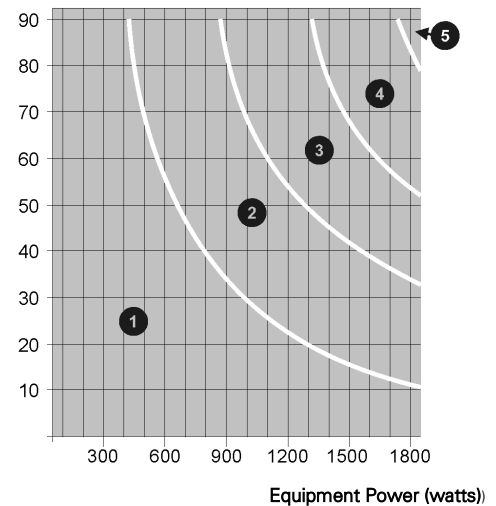
† Power factor, efficiency and DC output power are dependant on rectifier model fitted. Refer to the rectifier data sheet for further details.

Options

Battery*	Eaton Extended Battery Module (EBM) 5PX version - 5PXEBM48RT (available globally) 5130 version - 103006587-6591 (EMEA only)Weight: 29.5kg [65lb] Dimensions (H,W,D*): 85mm (2U), 432mm (19" mounting), 487mm *Additional space is required at the rear for cables.
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Typical Run time values* (see graph).

Battery Run Time (minutes)



① = Required number of battery modules.

*Battery times are approximate and vary depending on factors such as:
- load configuration
- battery charge
- battery age and temperature.

* Other battery options available - consult your local Eaton agent.

Battery Cables	CKBATT-02 Eaton EBM 5130 connection cable, 2000mm long or CKBATT-01 'other batteries' connection cable, 2000mm long
Equipment Cable	Customer Equipment Connection Cable CKLOAD-00 10-way connection loom, 1000mm long
EBM Rack Mounting Kit	Included with the EBM as standard

Certifications

All products comply with International Standards.

North America	UL (Canada, USA), FCC Class B
Europe	CE
Australia and New Zealand	RCM

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

