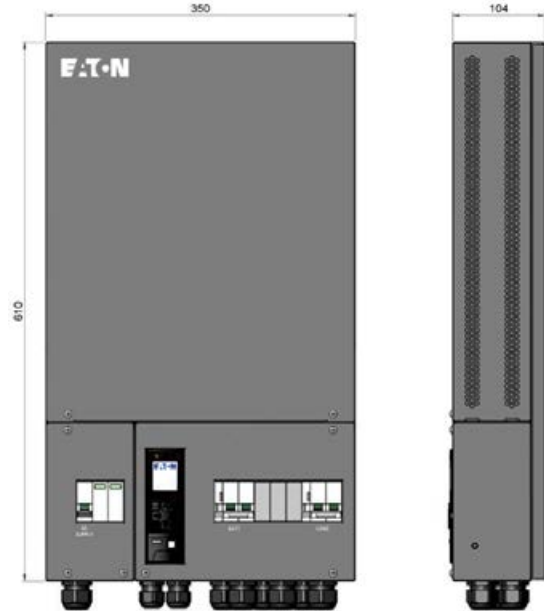


3G Wall Mount Power Solution WMPS2



Features

- Low profile wall / surface mount cabinet
- 24Vdc or 48Vdc output
- Up to 2 rectifier modules
- 1+1 redundancy option
- Fast on-line replacement of rectifiers (hot-swap)
- Pre-configured software
- Remote monitoring & control options via Ethernet, RS232 (TCP/IP or Modbus), and voltage free relay contacts
- Double pole load & battery circuit breakers
- AC input circuit breaker and surge diverter
- Floating output with earth fault detector
- Site monitoring via digital and analogue I/O
- Site & Power monitoring options via Power Manager2 and DC Tools software packages
- Compatible with Eaton Energy Saver (ES) rectifiers



48V secure DC power up to 2.0kW
24V secure DC power up to 1.4kW

The Eaton® 3G Wall Mount Power Solution is ideal for low power telecommunications and industrial applications, offering compact, efficient, and reliable secure DC power supply.

The WMPS2 can have either Sealed Lead-Acid or Lithium batteries added to produce a fully battery backed DC-UPS.

These systems are available with up to two of the Eaton 3G Access power rectifier modules of 48V or 24V. Typically one rectifier module is used for load and battery recharge, whilst the second module if fitted is for redundancy.

For superior operating efficiency to further reduce operating costs, these systems are also compatible with Eaton Energy Saver (ES) 48V Access power rectifiers which provides operating efficiency in excess of 96%.

The systems includes the SC200 system controller and an integral IOB-GP control board. The DC distribution breakers are monitored for tripping, and an optional temperature compensation sensor is available for temperature based charging control. The system includes an integrated earth fault detector for situations where a fully floating DC supply is required.

The SC200 system controller offers highly advance 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.

Typical applications for the WMPS2 include providing secure power backup for Industrial Switch Boards, SCADA Systems, Telecom Customer Premises equipment, Data Networks and IP routers.

The 3G Wall Mount 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) 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) APR24-3G : 89% (50 – 100% Output Current)
AC Connection	1 * single phase, hardwired to terminal blocks/CB.

Output

DC Output	21.5-32V
Voltage Range	43-57.5V
DC Output Power (maximum)*	24V: 0.96kW (40A) 48V: 2.00kW (42A)

* Total load capacity (not including redundancy)

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	610mm, 350mm, 104mm * Additional clear space is required for exhaust air & AC/DC cables.
IP Protection	IP21 Protection from falling water droplets.

System

System Controller	SC200
DC Distribution Module	load: 1*40A double pole curve C + alarm auxiliary battery: 1*63A double pole curve C + alarm auxiliary
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)
Battery Shunt	1*100A

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

Input/Output Standard

Analogue Inputs	Current Sensor (1) Bus Voltage (1) Temperature (1) Battery Midpoint Voltage (4) with optional sensor cable
Digital Inputs	Internal (4) pre-defined, External (6) user-defined
Digital Outputs	(6) Voltage free, no-c-nc 0.1A @ 60VDC Screwless terminal block, 0.5mm ² – 2.0mm ²
Additional I/O	With optional IOB-SS expansion board.

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.



1300 662 435
poweronaustralia.com.au

Power On Australia Pty Ltd - ABN 48 110 752 442

Unit 20, 256-258 Musgrave Road, Coopers Plains Qld 4108 (Head Office)
Po Box 5322, Daisy Hill QLD 4127