

EATON

Powerware

Data-Voice-Video Power Solutions

48V integrated systems up to 72kW
24V integrated systems up to 41.8kW



Features

- Intelligent system management features
- Pre-Configured Software
- High Power Density
- Fast On-Line Expansion of Rectifiers (Hot-Swap)
- High Efficiency and Unity Power Factor
- Range of DC distribution configurations
- Battery condition monitoring
- Wide AC input voltage range
- Seismic rated cabinet

The Powerware Data-Voice-Video Power Solutions range of DC power systems is designed for telecommunication network applications requiring compact, efficient and flexible DC power supplies.

These DC power systems use either Powerware APR or NPR rectifier modules and include an integral AC and DC distribution with flexible combinations of fuses and MCBs, and an SM60 or SM65 series supervisory module. Low voltage disconnect (LVD) options are also available.

Intelligent system management features include battery temperature charge compensation, fast charge, battery current limit and automatic equalize charging.

Typical applications are providing 24V or 48V standby power for wireless base stations,

long-distance transmission systems, local and central office switches and other large switch installations.

Powerware Data-Voice-Video Power Solutions are pre-configured for fast installation and set-up. All system settings are fully adjustable in software and stored in transferable configuration files for repeatable one-step system set-up.

Typical Applications

- Wireless BTS and MSC sites (CDMA/GSM/3G UMTS)
- Transmission Terminals
- Local and Central Office Switching
- Point-of-presence (POP) sites

Technical Specifications

Brief Technical Specifications

AC Supply	3P+N+PE, 3P+PE 50/60Hz (nominal) Other options available depending on system capacity.
Power Factor	>0.99* (20 – 100% Maximum System Current)
Efficiency	24V: up to 89%* 48V: up to 92%*
DC Output Voltage Range	24V: 20 – 29V 48V: 40 – 58V
Typical DC Output Power	24V: 41.8kW (1600A @ 24V)† 48V: 72kW (1500A @ 48V)†
Operating Temperature Range	-25°C to +50°C*
Dimensions H, W, D	2000mm [78.7"], 600mm [23.6"], 600mm [23.6"]
Weight	280kg [620lb] Typical configuration with 24 NPR rectifier modules.
Supervisory Module	SM60 or SM65 Series

*Refer to rectifier specifications for more information.

† System output power will vary depending on rectifiers and batteries selected.

Options

AC Distribution	Coordinated transient protection up to 40kA, 8/20μs Incoming isolator Individual rectifier MCBs
DC Distribution	A wide range of DC distribution elements are available including: 24 x C60 type MCBs (1-63A) 16 x C120 type MCBs (10-125A) 10 x DIN00 type HRC fuses (20-160A) 6 x DIN1 type HRC fuses (63-250A) 6 x DIN2 type HRC fuses (100-400A)
Low Voltage Disconnect (LVD)	Single or dual LVD can be configured as battery or load disconnect including non-priority load disconnect.
Rectifier Blank Panels	For unused rectifier positions
PowerManagerII	Remote control and monitoring software
DCTools	Configuration Software. Free download from www.powerware.com/downloads
SiteSure	Input/output modules to monitor and control external equipment
CellSure	Comprehensive battery monitoring and fault diagnosis system with patented state-of-health algorithms.

Certifications

All products comply with International Standards. Contact your local Powerware DC representative for details on the specific product versions available with these safety and EMC approvals:

China	MII
Europe	CE
Australia / New Zealand	C-tick, Seismic rating to NZS4203

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

