

EATON

Powerware

Network Power Solutions

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



Features

- Modular systems in 45U cabinet
- Pre-Configured Software
- High Power Density
- Fast On-Line Expansion of Rectifiers (Hot-Swap)
- High Efficiency and Unity Power Factor
- Surge Protection
- Parallel System Option
- Temperature Compensation
- Wide range of DC distribution options

The Powerware range of modular DC power systems with NPR48 and NPR24 rectifier modules is the ideal solution for telecommunications network applications requiring compact, efficient and flexible DC power supplies.

This 19" rack system is available with up to 24 compact rectifier modules that occupy only 20U of rack space. Multi-rack systems (up to 378kW, 7875A @ 48V or 219kW, 8390A @24V) are also available in the Powerware Large Power Solutions range.

All systems include integral AC distribution modules and an SM60 or SM65 series supervisory module. The 45U rack cabinet also provides up to 18U space for a variety of MCB or fuse distribution modules and LVD options.

Typical applications are providing 24V or 48V standby power for wireless networks, long-distance transmission systems, local and central office switches and other large switch installations.

Powerware Network 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
- Transmission Terminals
- Local and Central Office Switching

Technical Specifications

Brief Technical Specifications

AC Supply	3-Phase, 415V, 50/60Hz (nominal)
Power Factor	>0.99 (20 – 100% Maximum System Current)
Efficiency	24V: >88% 30 – 100% Output Current >89% @ 50% Output Current 48V: >90% 20 – 100% Output Current >92% @ 50% Output Current
DC Output Voltage Range	24V: 20 – 29V 48V: 40 – 58V
Maximum DC Output Power	24V: 41.8kW, 1600A @ 24V in single rack* 48V: 72kW, 1500A @ 48V in single rack*
* Multi-rack systems also available in the Powerware Large Power Solutions range.	
Operating Temperature Range	24V: -25°C — +70°C [-13°F — 158°F] Maximum output current is derated above 40°C [104°F] 48V: -25°C — +70°C [-13°F — 158°F] Maximum output current is derated above 50°C [122°F], or if the optional rectifier insect screens are fitted.
Dimensions H, W, D	45U cabinet: 2100mm [82.7"], 600mm [23.6"], 600mm [23.6"]
Weight	280kg [620lb] Typical configuration with 24 rectifier modules
Supervisory Module	SM60 or SM65 Series
AC Distribution Module	A range of options include AC isolator, coordinated transient protection, and individual rectifier MCBs. More details available on request.
DC Distribution Module	See Options

Options

DC Distribution Module (MCB)	DCM1600/2400: 16-way or 24-way, Miniature Circuit Breakers (MCBs) DCM1010/1610: 10-way or 16-way load, 4-way battery, Miniature Circuit Breakers (MCBs)
DC Distribution (Fuse)	DCF1000: 10-way, DIN00 HRC Fuses DCF0600/0601/0602: 6-way, DIN00, DIN1 or DIN2 HRC Fuses DCF0403: 4-way, DIN3 HRC Fuses
Low Voltage Disconnect (LVD)	LVD801: 1 x 800A (single LVD unit) LVD802: 2 x 800A (dual LVD unit) LVD1201: 1 x 1200A (single LVD unit) LVD1202: 2 x 1200A (dual LVD unit)
Rectifier Blank Panels	For unused rectifier positions
System Blank Panels	For unused system module 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	Battery Monitoring and Fault Diagnosis

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

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