

EAT•N

Powerware

Access Power Solutions



Features

- High reliability fan cooling
- 19" Sub-rack
- Modular 3U/6U and expandable option
- Up to 24 rectifier modules
- Pre-Configured Software
- High Power Density (186A/3U, 19")
- Multiple AC option (1Ø, 3Ø, 2Ø)
- Fast On-Line Replacement of Rectifiers (Hot-Swap)
- High Efficiency and Unity Power Factor
- AB Feeds option for DC Distribution
- Scalable System Solution

Powerware Access Power Solutions are the ideal solution for low to medium power telecommunications applications requiring compact, efficient and flexible DC power supplies.

These 19" rack mount systems are available with 3, 6, 12, 18, or 24 of the Powerware Access Power series of 24V and 48V rectifier modules with output up to 744A.

The systems also include an integral DC distribution panel and the versatile SM40 or SM45 series of supervisory modules with Ethernet, GSM cellular (including text messaging), standard modem and TCP/IP communications options.

Other features include temperature compensated voltage output for better battery life, a range of circuit breaker

configurations and optional low voltage disconnect (LVD) modules.

Typical applications are providing standby power for customer premises equipment, roadside terminals, data networks and IP routers. The Access 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.

Technical Specifications

Brief Technical Specifications

AC Supply APR24/APR48: 220/240V, 50/60Hz (nominal)
 185-275V full output power up to 50°C [122°F]
 150-185V full output power up to 30°C [86°F]
 APU48: 110/240V, 50/60Hz (nominal)
 95-275V full output power up to 50°C [122°F]

Power Factor >0.99 (50 – 100% Output Current)

Efficiency 24V: 88% (50-100% Output Current)
 48V: 90% (50-100% Output Current)

DC Output Voltage Range
 24V: 21.5-29V
 48V: 43-57.5V

Operating Temperature Range
 -40°C – +70°C [+40°F – +158°F]

Output current is derated above 50°C [122°F] and below -10°C [14°F]

Dimensions H, W, D APS3: 3U, 19" mounting, 300mm [11.8"]*
 APS6: 6U, 19" mounting, 300mm [11.8"]*
 APS12: (typical): 15U, 19" mounting, 300mm [11.8"]*
 APS18: (typical): 18U, 19" mounting, 300mm [11.8"]*
 APS24: (typical): 21U, 19" mounting, 300mm [11.8"]*

* Additional clear space is required for exhaust air (all models) and bus bars (APS12 and larger systems).

Supervisory Module SM40 or SM45 Series

DC Distribution Module
 APS3: 10-way Miniature Circuit Breakers (MCB)
 Other models: 24-way Miniature Circuit Breakers (MCB)

Custom MCB or fuse options are available on request. Distributions are configurable for battery, load and AC connections.

Options

Communications All models: RS232 direct, or connect to external PSTN or GSM modem (modem not included).
 With SM45: TCP/IP, SNMP, or web server.

Low Voltage Disconnect (LVD)
 APS3: 100A internal
 APS6: 200A internal
 Other systems: 400 and 800A options

Rectifier Blank Panels
 For unused rectifier positions

DCTools Configuration software.
 Free download from: www.powerware.com/downloads

PowerManagerII Remote control and monitoring software

Other Options External Surge Protection

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:

North America	UL, FCC Verification, CSA, IC
Europe	CE
Australia / New Zealand	C-tick, Telepermit

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

Nominal Output Voltage	Rectifier Model	System Type	Maximum Number of Rectifier Modules	Maximum Output Power (kW)	Maximum Output Current
24V	APR24	APS3	3	2.25	93A @ 24V
		APS6	6	4.5	186A @ 24V
		APS12	12	9	372A @ 24V
		APS18	18	13.5	558A @ 24V
		APS24	24	18	744A @ 24V
48V	APR48	APS3	3	4.5	93A @ 48V
		APS6	6	9	186A @ 48V
		APS12	12	18	372A @ 48V
		APS18	18	27	558A @ 48V
		APS24	24	36	744A @ 48V
48V	APU48	APS3	3	2.16	45A @ 48V
		APS6	6	4.32	90A @ 48V
		APS12	12	8.64	180A @ 48V
		APS18	18	12.96	270A @ 48V
		APS24	24	17.28	360A @ 48V