

EAT•N

Powerware

APR48/APU48 Access Power Rectifiers



Features

- Fast On-Line Replacement of Rectifiers (Hot-Swap)
- Automatic Set-up from Supervisory Module
- Intelligent microprocessor controlled
- Industry leading power density
- High Efficiency and Unity Power Factor
- Wide or Universal AC Input
- Wide Output Voltage Ranges
- Constant Power Output
- Compliance with International Standards

The Powerware APR48 and APU48 Access Power Rectifiers are designed specifically for network access applications such as cellular base stations, customer premises equipment and road-side cabinet installations.

The combination of industry leading power density and high frequency switch mode technology with high reliability fan cooling makes the APR48 and APU48 flexible, efficient, and reliable DC power sources.

The APR48 is a high powered rectifier with 1500W output, it is designed for operation at up to 70°C (158°F) and under a wide range of AC power conditions.

The APU48 is designed specifically for operation from 110V or 240V nominal AC supplies making it a universal DC power source suitable for use in any country.

These features make the APR48 and APU48 perfectly suited to the wide variety of equipment and demanding environmental conditions found in network access applications.

Both models also have power factor correction and are up to 90% efficient, with optimum performance available at typical load currents. Together these give the APR48 and APU48 some of the lowest running costs for any DC power system of its type available.

Operating with the Powerware SM40/SM45 or SM60/SM65 series supervisory modules the APR48 and APU48 rectifier modules will provide years of cost-effective, and trouble free service for your 48V network access equipment.

Technical Specifications

Brief Technical Specifications

AC Supply	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	90% (50 – 100% Output Current)
DC Output Voltage Range	48V: 43 – 57.5V
DC Output (maximum)	APR48: 1500W, 31A @ 48V APU48: 720W, 15A @ 48V
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]	
Cooling	Temperature controlled, high reliability fan
Dimensions H,W,D	3U: 133mm [5.25"], 13E: 66mm [2.6"], 280mm [11"] overall
Weight	1.9kg [4.2lb]

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.