

# Intergy R648/R748/R1248 Series

## Features

- ▶ Fast On-Line Replacement of Rectifiers (Hot-Swap)
- ▶ Automatic Set-up from Supervisory Module
- ▶ Optional Stand Alone Operation
- ▶ High Power Density
- ▶ High Efficiency and Unity Power Factor
- ▶ Operates in a Variety of AC Supply Conditions
- ▶ Wide Output Voltage Ranges
- ▶ Constant Power Output Capability
- ▶ Compliance with International Standards



The Intergy R648/R748/R1248 Series of rectifier modules are suitable for any low power, 48V telecommunications equipment such as customer premises equipment, road-side cabinets and other subscriber network installations.

The combination of leading high frequency technology with improved thermal design makes a flexible, efficient, and reliable DC power source. Optimum performance is available at typical load currents for minimized running costs. The Intergy R648/R748/R1248 Series rectifiers are rated up to 91% efficient.

These rectifiers are designed to operate with the SM30 Series Supervisory Module in an Intergy Mini or Intergy Network Energy Source power system (R748/R1248). Or they will operate in a stand-alone mode.

# Intergy R648/R748/R1248 Series

## ► Brief Technical Specifications

For complete product specifications contact your local Intergy representative

AC Supply	R648: 110/240V, 50/60Hz (nominal) R748: 110V, 60Hz (nominal) R1248: 220/240V, 50/60Hz (nominal)
Power Factor	>0.99 (50 – 100% Output Current)
Efficiency	R648: 230V AC input: >91% (50 – 100% Output Current) 120V AC input: >88% (50 – 100% Output Current) R748/R1248: >90% (50 – 100% Output Current)
DC Output Voltage Range	48V: 45 – 60V
DC Output (maximum)	R648: 580W, 12A @ 48V (240V AC input) R748: 680W, 14.2A @ 48V R1248: 1160W, 24A @ 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	R648: Convection cooling R748/R1248: Temperature controlled, high reliability fan
Dimensions H, W, D	R648/R748: 3U: 133mm [5.25"], 16E: 81mm [3.2"], 250mm [9.8"] overall R1248: 3U: 133mm [5.25"], 16E: 81mm [3.2"], 275mm [10.8"] overall
Weight	R648: 1.8kg [4lb] R748/R1248: 1.9kg [4.2lb]

## ► Certifications

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

Region	Certification
North America	UL, FCC Verification
Canada	IC
Europe	CE (except R748)
New Zealand / Australia	C-tick, Telepermit

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