power-one™
Changing the Shape of Power

CMP 3.48

Rectifier Module

Description

The Power-One CMP 3.48, for use in the Galero™ series of power systems, is the next evolution in our convection cooled rectifier series. This module provides the latest advances in resonance switch mode technology (softswitching). An onboard microcontroller and an RS 485 data bus provide monitoring of basic functions, status and identification information to the system controller (GMC).

The CMP 3.48 rectifier module is optimized for telecom applications and is designed to work in numerous subrack/shelf configurations incorporating the GMC controller and varying distribution options.

Galero™ Power System

Features

- 208/240 VAC input
- 48 VDC output
- Input over-voltage disconnection
- Thermal protection, with de-rating
- Active load sharing
- Hot-swappable
- Up to 91% efficient
- Natural convection cooling
- Low weight
- International Standards Compliance

CMP 3.48

Rectifier Module

Input

Model	CMP 3.48
Input Voltage	205-240V AC +10% single phase, 44-66Hz (185-160V at reduced power output)
Current (max.)	<2.5A
Soft Start	<12A peak max. 5ms
Harmonics	EN 6100-3-2 (Power factor > 0.98 at max. load)
Surge Immunity	EN 61000-4-5
Fuse	T 3.15A
Connection	DIN 41612F
EMC	EN 6100-6-2, EN 61000-6-3, FCC Part 15 Class B

Output

Model	CMP 3.48
Output Voltage	45-56VDC
Power (max.)	364W @ 56V DC 354W @ 54.5V DC
Current (max.)	6.5A
Efficiency (at 55-100% load)	>91%
Tolerance	Vout +/- 1.0%,
Transient Response	+/- 5% at load variation 10-90% or 90-10% recovery time 10ms
Load Sharing	Typical <5% of nominal current
Ripple	<100mV p-p (BW. 30Mhz)
Psophometric	<2mV, according to CCITT norms
Connection	FCI power connector™
EMC	EN 61000-6-2, EN 61.000-6-4

Note: All specifications are subject to change without notification.

Mechanical

Dimensions	43 x 120.8 x 264.5mm (1.7 x 4.75 x 10.4in.)
Weight	1.1kg (2.4 lbs.)
Cooling	Natural Convection
Insulation	Reinforced insulation, tested at: 4.25 KV DC primary-secondary 2.12 KV DC primary-ground 0.75 KV DC secondary-ground
Enclosure	IP20
Mounting	Up to 7 modules per shelf

Other Technical Data

Safety	EN 60950 UL 1950 and IEC60950 Class 1 CSA C22-2 No. 950	
Protection	Short circuit proof, automatic current limiting, selective shutdown of modules at excessive output voltage. Thermal protection reduces the output power at environmental temperatures above maximum level. Shut down at >75°C. Input over-voltage disconnecting at >265 VAC with automatic reset at >250VAC.	
Indications	Green LED Red LED	Power ON High output voltage/ shut down Low voltage/ module failure
Audible Noise	<35dBA	
Operating Temperature*	-25 to +55°C up to 2000m -25 to +45°C above 2000m	
Storage Temperature	-40 to +85°C	
Radiated EMC	EN 61000-6-2, EN 61000-6-3, FCC Part 15, Class B	
Environment	Storage: Transport: Operation	ETS 300 019-2-1 ETS 300 019-2-2 ETS 300 019-2-3

*Average performance for a single module.