

## Description

The Power-One CMP 3.48, for use in the Galero<sup>TM</sup> 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<sup>TM</sup> 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

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

### Output

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

Note: All specifications are subject to change without notification.

### Mechanical

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

### Other Technical Data

<b>Safety</b>	EN 60950 UL 1950 and IEC60950 Class 1 CSA C22-2 No. 950	
<b>Protection</b>	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.	
<b>Indications</b>	Green LED  Red LED	Power ON  High output voltage/ shut down Low voltage/ module failure
<b>Audible Noise</b>	<35dBA	
<b>Operating Temperature*</b>	-25 to +55°C up to 2000m -25 to +45°C above 2000m	
<b>Storage Temperature</b>	-40 to +85°C	
<b>Radiated EMC</b>	EN 61000-6-2, EN 61000-6-3, FCC Part 15, Class B	
<b>Environment</b>	Storage: Transport: Operation	ETS 300 019-2-1 ETS 300 019-2-2 ETS 300 019-2-3

\*Average performance for a single module.