

## Description

The PMP 13.48 is a convection-cooled rectifier delivering superior reliability in harsh environmental conditions where fan-cooled products may not deliver the reliability required to ensure maximum network asset performance.

With leading-edge patented resonant conversion topology, the PMP13 industry-leading efficiencies of 93.5% deliver significant operating expenditure savings in the network on utility and HVAC costs. Power-One also recognizes that typical network loads operate between 20-60%; hence the PMP13 unique "flat" efficiency ensures minimal energy loss down to 15% of installed capacity

The PMP 13 is optimized for telecom applications, and is designed to work in PPS10 systems incorporating the PCS controller and various distribution options with up to 6 units per 19"/6U shelf and up to 8 units per 23"/6U shelf.



PPS 10 3900 System Shown



## Features

- RoHS lead free solder and lead solder exempted products are available
- 208/240 VAC input
- 48 VDC output
- Input overvoltage disconnection
- Thermal protection
- Active load sharing
- Hot swappable
- Up to 92% efficient
- International standards compliance
- Natural convection cooling
- Low weight



Input	
Model	PMP 13.48
Input Voltage	205-250 VAC ±10% single phase, (44-66 Hz) (185-160 V at reduced output power)
Current (max.)	<6.8 A
Soft Start	<12 A peak max. 100 ms
Harmonics	EN 61000-3-2 Power Factor >0.99 at max. load
Surge Immunity	EN 61000-4-5
Fuse	T 10A
Connection	IEC-320/C14
EMC	EN 61000-6-2, EN 61000-6-3, FCC Part 15 Class B
<b>Autout</b>	

Output		
Model	13.48	
Output Voltage	44 - 56 VDC	
Power (max.)	1300 W at 50-56 VDC	
Current (max.)	28 A	
Efficiency	>92%	
(at 40-90% load)*		
Tolerance	Vout ± 1.0%	
Transient Response	± 5% at load variation 10-90% or 90-10%, recovery time 10 ms	
Load Sharing	<5% of nominal current	
Ripple	<100 mV p-p (BW. 30 MHz)	
Psophometric	<2 mV, according to CCITT norms	
Connection	DIN 41612F	
EMC	EN 61000-6-2, EN 61000-6-4	

NUCLEAR AND MEDICAL APPLICATIONS - Power-One products are not designed, intended for use in, or authorized for use as components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the respective divisional president of Power-One, Inc.

TECHNICAL REVISIONS - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.

Mechanical				
Dimensions (WxHxD)	62 x 261 x 231 mm (2.4 x 10.3 x 9.1 in)			
Weight	3.1 kg (6.8 lb)			
Cooling	Natural Convection			
Insulation	Reinforced insulation, tested at: 4.25 kVDC primary-secondary 2.12 kVDC primary-ground 0.75 kVDC secondary-ground			
Enclosure	IP20			
Mounting	Up to 8 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 with an automatic restart.* Input overvoltage disconnection at >275 VAC with automatic reset at >260 VAC.			
Indications	Green LED Red LED	Power ON High output voltage/ shutdown		
	Red LED	Low voltage/ module failure		
Audible Noise	<35 dBA			
Operating Temperature	-25 to +55 °C up to 2000 m -25 to +45 °C above 2000 m			
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.