

Description

The Power-One PMP 7.24 and 7.48 rectifier modules provide a cost-effective power solution in the highest possible density. Built on the latest advances in the resonance switch mode approach (soft-switching), the PMP 7.24 and 7.48 are the next evolution in our small convection-cooled rectifier series.

Optimized for telecom applications, the modules are designed to work in a multitude of different subrack/shelf configurations incorporating the Power-One PCU controller and various distribution options.



PPS 7 3500 System
Shown

Features

- 208/240 VAC input
- 24V, 48V DC 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 7.24	PMP 7.48
Input Voltage	205-250 VAC $\pm 10\%$ single phase, (44-66 Hz) 185-160V at reduced output power	
Current (max.)	<3.55A	<4.35A
Soft Start	<11A peak max. 5 ms	<15.5A peak max. 5 ms
Harmonics	EN 61000-3-2 Power Factor >0.99 at max. load	
Surge Immunity	EN 61000-4-5	
Fuse	T 6,3A	
Connection	IEC-320/C14	
EMC	EN 61000-6-2, EN 61000-6-3, FCC Part 15 Class B	

Output

Model	PMP 7.24	PMP 7.48
Output Voltage	22.5-28 VDC	45-56 VDC
Power (max.)	560 W	672 W
Current (max.)	20A	12A
Efficiency	>89.5%	>92%
Tolerance	Vout $\pm 1.0\%$	
Transient Response	$\pm 5\%$ at load variation 10-90% or 90-10%, recovery time 10 ms	
Load Sharing	<5% of nominal current	
Ripple	<100mV p-p (BW 30 MHz)	
Psophometric	<2mV, according to CCITT norms	
Connection	DIN 41612F	
EMC	EN 61000-6-2, EN 61000-6-4	

Mechanical

Dimensions (WxHxD)	62 x 129 x 232mm (2.4 x 5.1 x 9.1in.)
Weight	1.65kg (3.6lbs.)
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	In 19" subrack up to 5 modules

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 over-voltage disconnection at >275VAC with automatic reset at >260VAC.	
Indications	Green LED Red LED	Power ON High output voltage/ shutdown 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: Earthquake:	ETS 300 019-2-1 ETS 300 019-2-2 ETS 300 019-2-3 GR 63 Core Zone 4

NUCLEAR AND MEDICAL APPLICATIONS - Power-One products are not designed, intended for use in, or authorized for use as critical 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.