

Description

The Power-One PMP 7 rectifier module provides 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 is the next evolution in our small convection cooled rectifier series.

Optimized for telecom applications, the module is 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, or 60V DC output
- Input overvoltage disconnection
- Thermal protection
- Active load sharing
- Hot-swappable
- Up to 92% efficient
- International standards compliance
- Natural convection cooling
- Low weight

PMP 7

Rectifier Module

Input

Model	PMP 7.24	PMP 7.48	PMP 7.60
Input Voltage	205-250V AC $\pm 10\%$ single phase, (44-66Hz) (-15% for PMP7.60) 185-160V at reduced output power		
Current (max.)	<3.55A	<4.35A	<4.35A
Soft Start	<11A peak max. 5ms	<15.5A peak max. 5ms	<20A peak max. 5ms
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	PMP 7.60
Output Voltage	22.5-28VDC	45-56VDC	56-70.5VDC
Power (max.)	560W	672W	635W
Current (max.)	20A	12A	9A
Efficiency (at 40-90% load)*	>89.5%	>92%	>92%
Tolerance	Vout $\pm 1\%$		
Transient Response	$\pm 5\%$ at load variation 10-90% or 90-10%, recovery time 10ms		
Load Sharing	<5% of nominal current		
Ripple	<100mV p-p (BW. 30MHz)		
Psophometric	<2mV, according to CCITT norms		
Connection	DIN 41612F		
EMC	EN 61000-6-2, EN 61000-6-4		

*Average performance for a single module.

Mechanical

Dimensions	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 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:	ETS 300 019-2-1 ETS 300 019-2-2 ETS 300 019-2-3

Note: All specifications are subject to change without notification.