

Description

The Power-One PMP 5 rectifier module provides a cost-effective power solution in a high density footprint. Built on the latest advances in the resonance switch mode approach (soft-switching), the PMP 5 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.



PPR 5/7 System
Shown

Features

- 115/230 VAC input
- 24V, or 48VDC output
- Power factor correction
- Active load sharing
- Hot-swappable
- Low weight
- Natural convection cooling
- International standards compliance

PMP 5

Rectifier Module

Input

Model	PMP 5.24	PMP 5.48	PMP 5.24-110	PMP 5.48-110
Input Voltage	195-276V AC single phase, (44-66Hz)		93,5-148,5V AC single phase, (44-66Hz)	
Current (max.)	<2.9A		<5.8A	
Soft Start	<8A peak max. 5ms		<16A peak max. 5ms	
Harmonics	EN 610555 Power Factor >0.99 at 50-100% load			
Surge Immunity	EN 61000-4-5			
Fuse	T 3,15A		T 6A	
Connection	IEC-320/C14			
EMC	EN 61000-6-2, EN 61000-6-3, FCC Part 15 Class B			

Output

Model	PMP 5.24	PMP 5.48	PMP 5.24-110	PMP 5.48-110
Output Voltage	22.5-28 VDC	45-56 VDC	22.5-28 VDC	45-56 VDC
Power (max.)	448W	448W	448W	448W
Current (max.)	16A	8A	16A	8A
Efficiency	>87%	>89%	>85%	>87%
Tolerance	Vout +/- 1%			
Transient Response	+/- 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			

Note: All specifications are subject to change without notification.

Mechanical

Dimensions	62 x 129 x 232mm (2.4 x 5.1 x 9.1in.)
Weight	1.5kg (3.3lbs.)
Cooling	Natural convection
Insulation	Reinforced insulation tested at: 4.25 kV DC primary-secondary, 2.12 kV DC primary-ground, 2.12 kV DC secondary ground
Enclosure	IP20
Mounting	In 19" subrack up to 6 modules

Other Technical Data

Safety	EN 60950	
Protection	Short circuit proof, automatic current limiting, selective shutdown of modules at excessive output voltage.	
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	
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