

Power Module - PM 12-40A

This Versatile Rectifier Module functions as either power supplies or battery chargers for 12 volt systems; positive, negative or floating ground. They may be employed singly or in combination, enabling the installer to scale the system anywhere from 500 to 10,000 watts per rack. Units may be paralleled for N + 1 redundancy and alarm contacts allow local or remote monitoring. An optional DC quick connect wiring kit allows easy replacement of modules without system shutdown.

Power Modules may be used separately as a power source, or they may be integrated with the Power Function Manager to greatly expand the system capability with other functions such as digital output monitoring, powering multiple loads via circuit breaker distribution and low voltage battery disconnect.



Features

- 12 volt output; pos., neg. or floating ground
- 115 or 230 VAC, 47-63 Hz input
- 560 watts per module (approx.)
- Built-in oring diode for parallel or N + 1 configuration
- Power supply or battery charger operation (DC UPS system)
- Form C alarm contacts
- 19" or 23", 2 RU, flush or 6" forward rackmount

Protection

- Output fuse for reverse polarity
- Current limit
- Input circuit breaker
- Forced air cooling with filter provided
- Over voltage protection

Mechanical/General

- Powder coated aluminum front panel
- Vinyl laminated base and cover
- 19" Rackmount, brackets provided
- Wallmount via optional brackets
- IEC AC entry module. 6' power cord with NEMA 5-15 plug, 115 VAC. (560 watt models)
- 6' power cord with NEMA 5-15 plug, 115 VAC
- 1/4" -20 Output stud
- Output "OK" L.E.D.
- Loss-of-output alarm contacts- Form C,
- Front panel voltage test points

Model	Input Amps	Output		Weight		
	@ Full Load	VDC	Amps	Watts	Lbs	Kg.
PM-12-40A	8.5/4.3	13.6	40	560	12.2	5.5

VDC (V OUT) Measured at output terminal with oring diode
 VDC (V2) Measured at direct output terminal
 + For parallel configuration/load sharing derate output 10%

Performance Specifications

- Input: 90-264 VAC, 47-63 Hz.
- Power Factor: .96-.99
- Regulation: $\pm 2\%$ through "oring" diode (V out)
- Ripple: 1% (Typical)
- Efficiency: 80-85% @ full load
- Front panel Output Voltage adjustment pot range: $\pm 10\%$
- Altitude Range: Full output to 5,000 feet. Derate output current 4% per 1,000 feet to 10,000 feet max.

Options

- DC quick connect wiring kit:
 Models: QCK-3 (for 2-3 unit PM system), QCK-6 (for 4-6 unit PM system),
- "Universal" mounting bracket; Model: UMB-PM
- Metering, alarms, LVD and distribution breakers (PFM-400 option)
- Rear rack protective cover

Design Standards

- UL 1950 / EN 60950 (Safety)
- EN 55022 (Conducted)
- FCC Part 15, Level A (Radiated)

Temperature Rating

0° C to +60° C; Derate linearly from 100% load @ 50° C to 80% @ 60° C

Case Size

Inches		
H	W*	D
3.5	17	20.5
Centimeters		
13.5	43.2	52.1

*19" mounting brackets provided



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Powering the Network

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