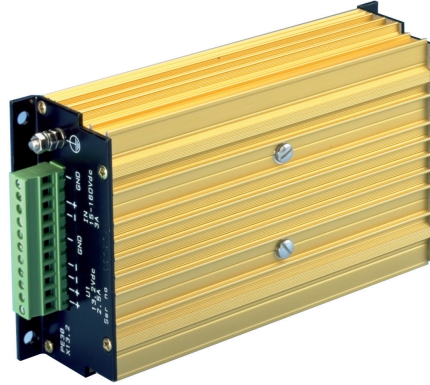


# PM80

60-80 WATTS DC/DC SINGLE-DUAL

## Features

- Very wide input voltage range
- Reverse input voltage protection
- Din rail mounting
- High efficiency
- EMI/RFI EN55022-B
- Low ripple output
- Operating temperature -25 to +55°C



## Specifications

### INPUT

Input voltage 12V, 24V, 36V, 48V, 110V, 220V  
See table for details

Reverse polarity protection Yes

### OUTPUT SPECIFICATIONS

Output voltage See table

Voltage adjustment 60V ±10%; 24V ±10%; 15V, 12-16V

Output current See table

Ripple & noise <2mV rms

Load regulation 0.2%

Line regulation 0.2%

Temperature coefficient 0.02% per °C

Overcurrent protection Yes

Transient response 3mS typical, 10%–90% load step

### OPERATING

Efficiency 78%–85%

Switching frequency 45kHz

Safety isolation For 24V, 48V inputs and below:  
Input – Output: 2000VDC  
Input - Case: 2000VDC  
Output – Case: 1000VDC  
For 60V input and above:  
Input – Output: 2500VAC  
Input - Case: 2500VDC  
Output – Case: 1000VDC

### ENVIRONMENTAL

Operating temperature -25°C to 55°C 100% Load

Storage temperature -40°C to 85°C

Can be used in non-condensing tropic Yes

### STANDARDS AND APPROVALS

Safety standards IEC60950, EN/IEC61204-3

C-Tick AS/NZS CISPR11 Group 1, Class A

EMC standards EN/IEC61000-4-4, 4KV  
EN/IEC61000-4-5 Level 2 and 3

EMI standards EN55011/EN55022 Level B

## MECHANICAL SPECIFICATIONS

Dimensions 157x106x48mm

Weight 0.65kg

## Selection Table

MODEL NUMBER	INPUT	OUTPUT1	OUTPUT2	POWER
PM80 24/24-24	18-32V	24V 2.50A		60W
PM80 24/36-36	18-32V	36V 1.68A		60W
PM80 24/24-24	18-32V	48V 1.25A		60W
PM80 24/36-36	18-32V	72V 0.84A		60W
PM80 48/24-24	40-60V	24V 3.34A		80W
PM80 48/36-36	40-60V	36V 2.24A		80W
PM80 48/24-24	40-60V	48V 1.67A		80W
PM80 48/36-36	40-60V	72V 1.12A		80W
PM80 110/24-24	88-150V	24V 3.34A		80W
PM80 110/36-36	88-150V	36V 2.24A		80W
PM80 110/24-24	88-150V	48V 1.67A		80W
PM80 110/36-36	88-150V	72V 1.12A		80W
PM80 220/24-24	175-300V	24V 3.34A		80W
PM80 220/36-36	175-300V	36V 2.24A		80W
PM80 220/24-24	175-300V	48V 1.67A		80W
PM80 220/36-36	175-300V	72V 1.12A		80W
PM80 24/24-24	18-32V	24V 1.25A	24V 1.25A	80W
PM80 24/36-36	18-32V	36V 0.84A	36V 0.84A	80W
PM80 48/24-24	40-60V	24V 1.67A	24V 1.67A	80W
PM80 48/36-36	40-60V	36V 1.12A	36V 1.12A	80W
PM80 110/24-24	88-150V	24V 1.67A	24V 1.67A	80W
PM80 110/36-36	88-150V	36V 1.12A	36V 1.12A	80W
PM80 220/24-24	175-300V	24V 1.67A	24V 1.67A	80W
PM80 220/36-36	175-300V	36V 1.12A	36V 1.12A	80W

Models consists of 2 isolated outputs 24V and 36V for connection in series or parallel.

Note: For dual output models, please consult Powerbox for model number and details.