

PM250

187-250 WATTS DC/DC SINGLE

Features

- Overvoltage protection, (OVP).
- Over/under voltage alarm output via relay.
- Extra output via series diode.
- Output voltage adjustable from front panel.
- Meets IP20 as standard.
- Operating temperature -25 to +55°C
- Low ripple and noise.



Specifications

INPUT

Voltage	12V, 24V, 48V
Isolation	Input - Output: 2.5kVac / 4kVdc Input – Case: 2.5kVac / 4kVdc Output– Case: 2.5kVac / 4kVdc Input – Alarm: 2.5kVac / 4kVdc Output – Alarm: 2.5kVac / 4kVdc Case – Alarm: 2.5kVac / 4kVdc

OUTPUT

Voltage	See table.
Current	See table.
Source regulation	0.1%.
Load regulation	0.3%.
Output ripple (60kHz)	30mV p-p
Voltage adjustment	95% - 110%.
Current limit protection	105%.
Overvoltage protection	115%.
Over/under voltage alarm	90%-115% of nominal output.
Remote sense	No.
Soft start	Yes.
Start-up time	<1s
Hold-up time	2-25ms
Efficiency	>80%

ENVIRONMENTAL

Operating temperature	-25°C to 55°C (100% load). -25°C to +70°C (with derating), contact Powerbox for details.
Temperature coefficient	0.02%.
Storage temperature	-40°C to 85°C.

GENERAL

Cooling	Convectional cooling.
Optional Features	-Conformally coating, option I. For environment with high non-condensing humidity max 98% RH. -EN/IEC61000-4-5 level 4. External varistor + surge arrestor mounted from pole to ground. With this filter the input meets Level 4 of EN/IEC61000-4-5 (+/-2kV line to line, 4kV line to ground) -Train input, option T. Input voltage range according to train Standard EN50155 and IEC 60751.
Mounting brackets	Please consult Powerbox for mounting options

STANDARDS

Safety standards	IEC 60950, EN/IEC 61204-3
C-tick	AS/NZS CISPR11 Group 1, Class A
EMC standards	EN/IEC 61000-6-2 EN/IEC 61000-4-2 EN/IEC 61000-4-3 EN/IEC 61000-4-4 EN/IEC 61000-4-5 EN/IEC 61000-4-6
EMI standards	EN/IEC 61000-6-3, EN55011/EN55022 (0.15-30mHz) Level B (30-1000mHz) Level A

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Selection Table

MODEL NUMBER	INPUT	OUTPUT		POWER
PM250 12/13.2	11-16V	13.2V	14.1A	187W
PM250 12/24	11-16V	24V	7.8A	187W
PM250 12/36	11-16V	36V	5.2A	187W
PM250 12/48	11-16V	48V	3.9A	187W
PM250 24/13.2	20-32V	13.2V	18.9A	250W
PM250 24/24	20-32V	24V	10.4A	250W
PM250 24/36	20-32V	36V	6.9A	250W
PM250 24/48	20-32V	48V	5.2A	250W
PM250 48/13.2	41-60V	13.2V	18.9A	250W
PM250 48/24	41-60V	24V	10.4A	250W
PM250 48/36	41-60V	36V	6.9A	250W
PM250 48/48	41-60V	48V	5.2A	250W

Technical Illustrations

FRONT PANEL

