

PBMPLS-RM Series

500-5000 WATTS DC/AC INVERTER

Features

- True sinewave waveform.
- Massive inrush and overload capability.
- Galvanically isolated.
- High efficiency toroidal transformer.
- DC circuit breaker/ BATT isolator switch
- Rack mounted design.
- LED status indicators.



Specifications

INPUT

Voltage	12, 24, 48, 96, 120 (Standard). 36, 72, and others (Also available).
Voltage range	-20% to +45% of nominal.

OUTPUT

Voltage	230Vac ±4% (Standard). 110Vac ±4% (Option).
Frequency	50/60Hz ±0.1
Output waveform	True sinewave < 4% THD.
Power factor correction	All conditions.
Crest factor	>4
Load start sensitivity	0-20W
DC to AC isolation	3500V
Over-load protection	Yes.
Over-temperature protection	Yes.
Short circuit protection	Yes.
BATT under and over voltage protection	Yes.

LED status indicators	ON, standby mode, over-temperature, over-load, BATT under voltage, BATT over-voltage.
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OPERATING

AC Outlet	Screw terminal junction box.
Battery Leads	Heavy duty low loss battery leads.
Dimensions	19", 3RU x 350mm (D) – all models.
Cooling	Thermostatically controlled 2-speed fan.

STANDARDS AND APPROVALS

Safety standards	AS3100, AS3000
C-tick	AS/NZS CISPR14, AS/NZS 1044
EMC standards	AS2279, AS3000, AS3100 and EN55014

ENVIRONMENTAL

Temperature Range	-10°C to 50°C, derate above 40°C by 10%
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Options

CODE ADD OPTION TO THE END OF INVERTER PART NUMBER

L	Alarm output – Voltage free contacts.
O	Transfer alarm.
KX	Automatic AC transfer switch with voltage sensing.
V	110Vac output.
J	Psophometric noise to ETS 3000132-2 (Available only on 48Vdc, 1800W to 3500W models)
B	High voltage isolation 2kV AC RMS 1 minute
D	RCD/Earth leakage
G	Mil spec conformal coating
R	Ruggedisation for high vibration environment.
H	Frequency 60Hz
L	"AC OK" alarm relay contact
C	Twin switched GPO
D	Twin switched RCD GPO
	Anderson 175 Amp connectors battery leads
	Anderson 120 Amp connectors battery leads
	Anderson 75 Amp connectors battery leads

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Selection Table

MODEL NUMBER	DC INPUT	INPUT RANGE	CONT. RATING	½ HOUR RATING	SURGE 5 SEC PEAK	EFF%	WEIGHT
PBMPLS-12U-RM	12V	10-17V	500W	550W	1500W	90%	7KG
PBMPLS-24X-RM	24V	21-34V	600W	750W	2000W	92%	7KG
PBMPLS-48X-RM	48V	42-68V	600W	750W	2000W	93%	7KG
PBMPLS-96X-RM	96V	80-140V	600W	750W	2000W	93%	7KG
PBMPLS-120X-RM	120V	96-160V	600W	750W	2000W	93%	7KG
PBMPLS-12W-RM	12V	10-17V	1000W	1150W	3000W	91%	12KG
PBMPLS-24V-RM	24V	21-34V	1200W	1600W	3600W	92%	12KG
PBMPLS-48V-RM	48V	42-68V	1200W	1600W	3600W	94%	12KG
PBMPLS-96V-RM	96V	80-140V	1200W	1600W	3600W	94%	12KG
PBMPLS-120V-RM	120V	96-160V	1200W	1600W	3600W	94%	12KG
PBMPLS-12V-RM	12V	10-17V	1500W	1600W	4500W	91%	16KG
PBMPLS-24I-RM	24V	21-34V	1800W	2200W	5400W	94%	16KG
PBMPLS-48I-RM	48V	42-68V	1800W	2200W	5400W	94%	16KG
PBMPLS-96I-RM	96V	80-140V	1800W	2200W	5400W	94%	16KG
PBMPLS-120I-RM	120V	96-160V	1800W	2200W	5400W	94%	16KG
PBMPLS-12I-RM	12V	10-17V	2000W	2200W	6000W	90%	22KG
PBMPLS-24IA-RM	24V	21-34V	2300W	2800W	7000W	94%	22KG
PBMPLS-48IA-RM	48V	42-68V	2500W	3000W	7500W	94%	22KG
PBMPLS-96IA-RM	96V	80-140V	2500W	3000W	7500W	94%	22KG
PBMPLS-120IA-RM	120V	96-160V	2500W	3000W	7500W	94%	22KG
PBMPLS-24Z-RM	24V	21-34V	3000W	3700W	9000W	93%	24KG
PBMPLS-48Z-RM	48V	42-68V	3500W	4100W	10500W	94%	24KG
PBMPLS-96Z-RM	96V	80-140V	3500W	4100W	10500W	94%	24KG
PBMPLS-120Z-RM	120V	96-160V	3500W	4100W	10500W	95%	24KG
PBMPLS-48ZC-RM	48V	42-68V	5000W	6000W	15000W	95%	30KG