

PBMPLS-RM Series

DC/AC SINEWAVE INVERTER

FEATURES

- 500W - 7000W
- True Sinewave Output
- Massive Overload Capability
- High Efficiency Toroidal TRX
- CCT Breaker/ Batt Isolator Switch
- Rack Mounting



SPECIFICATIONS

INPUT	
Input Voltage	12V, 24V, 48V, 96V, 120Vdc (Standard). 36V, 72Vdc, and others (Also available).
Voltage range	-20% to +45% of nominal.
OUTPUT	
Output Voltage	240Vac \pm 4% (Standard) > 110Vac \pm 4% (Option)
Output Frequency	50/60Hz \pm 0.1
Output waveform	True sinewave < 4% THD.
Power factor	All conditions.
Crest factor	>4
Overload Capacity	300% 5 Seconds (all models) 120% 30 minutes (110% 12V models)
Load start sensitivity	0-20W
Efficiency	94% Typical
PROTECTION	
AC and DC isolation	3500V, via toroidal transformers
Over-load protection	Yes.
Over-temperature protection	Yes.
Short circuit protection	Yes.
Battery under and over voltage protection	Yes.
Battery Isolator	The circuit breaker is designed for ease of operation and safety. If the inverter shuts down due to Overload, Undervolts or Overvolts, it can be reset by turning the Circuit Breaker OFF, waiting 10 seconds (or until LED goes out), then turning it on again
ENVIRONMENTAL	
Temperature range	-10°C to 50°C Derate above 40°C by 10%
Cooling	Thermostatically controlled 2-speed fan.
STANDARDS & APPROVALS	
Safety standards	AS3100, AS3000
C-tick	AS/NZS CISPR14, AS/NZS 1044
EMC standards	EN61000-6-1, EN61000-6-3, AS2279, AS3000, AS3100 and EN55014

ALARMS & INDICATORS

Inverter Operation	When inverter is switched on all 3 LEDs light up for one second for system check procedure
Power Indicator	Green LED. Flashes when in standby mode (no load connected). When load applied LED illuminates continuously
Undervolts/Overvolts	Red LED. In order to protect the battery the inverter will shutdown after 5 seconds if the battery voltage falls below its limit (Undervolts) LED remains continuous or exceeds the maximum (Overvolts) LED will continue to flash.
Over temperature	Red LED, If the internal temperature exceeds safe operating limits for more than 5 seconds, the inverter will shut down in Over temp with this LED on continuously. Allow 5mins for the inverter to cool and reset the unit.
Over load	Red LED, if the load demands more current than the inverter can safely supply for more than 5 seconds, the inverter will shutdown in Overload and this LED will flash

OPTIONAL FEATURES

CODE	ADD OPTION TO THE END OF INVERTER PART NUMBER
D	RCD fitted in place of hardware junction box of AC output.
G	MIL spec conformal coating applied to final assembly.
R	Ruggedisation for high vibration environment.
K	Automatic transfer switch 25Amp for 1000W to 1800W.
KX	Automatic transfer switch with ON delay timer and voltage sensing module. 40Amps for 2000W to 4000W and 65Amp for 5000W to 7000W models.
V	AC output voltage e.g. 100-120Vac.
H	Frequency 60Hz
L	"AC OK" alarm relay contact
C	Twin switched GPO (available only on 1000W to 5000W models).
DC	Twin switched RCD GPO (available only on 1000W to 5000W models).

MECHANICAL

AC connectors	Screw terminal junction box.
DC Connectors	Heavy duty low loss battery leads.
Dimensions	19", 3RU x 350mm – all models
Weight	See Selection Table

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SELECTION TABLE

MODEL NUMBER	DC INPUT	INPUT RANGE	CONTINUOUS RATING	½ HOUR RATING	SURGE 5 SEC	WEIGHT
PBMPLS-12U-RM	12Vdc	10-17V	500W	550W	1500W	7KG
PBMPLS-12W-RM	12Vdc	10-17V	1000W	1150W	3000W	12KG
PBMPLS-12V-RM	12Vdc	10-17V	1500W	1600W	4500W	16KG
PBMPLS-12I-RM	12Vdc	10-17V	2000W	2200W	6000W	22KG
PBMPLS-24X-RM	24Vdc	21-34V	600W	750W	2000W	7KG
PBMPLS-24V-RM	24Vdc	21-34V	1200W	1600W	3600W	12KG
PBMPLS-24I-RM	24Vdc	21-34V	1800W	2200W	5400W	16KG
PBMPLS-24IA-RM	24Vdc	21-34V	2300W	2800W	7000W	22KG
PBMPLS-24Z-RM	24Vdc	21-34V	3000W	3700W	9000W	24KG
PBMPLS-48X-RM	48Vdc	42-68V	600W	750W	2000W	7KG
PBMPLS-48V-RM	48Vdc	42-68V	1200W	1600W	3600W	12KG
PBMPLS-48I-RM	48Vdc	42-68V	1800W	2200W	5400W	16KG
PBMPLS-48IA-RM	48Vdc	42-68V	2500W	3000W	7500W	22KG
PBMPLS-48Z-RM	48Vdc	42-68V	3500W	4100W	10500W	24KG
PBMPLS-48ZC-RM	48Vdc	42-68V	5000W	6000W	15000W	30KG
PBMPLS-96X-RM	96Vdc	77-140V	600W	750W	2000W	7KG
PBMPLS-96V-RM	96Vdc	77-140V	1200W	1600W	3600W	12KG
PBMPLS-96I-RM	96Vdc	77-140V	1800W	2200W	5400W	16KG
PBMPLS-96IA-RM	96Vdc	77-140V	2500W	3000W	7500W	22KG
PBMPLS-96Z-RM	96Vdc	77-140V	3500W	4100W	10500W	24KG
PBMPLS-96ZC-RM	96Vdc	77-140V	5000W	6000W	15000W	30KG
PBMPLS-120X-RM	120Vdc	95-177V	600W	750W	2000W	7KG
PBMPLS-120V-RM	120Vdc	95-177V	1200W	1600W	3600W	12KG
PBMPLS-120I-RM	120Vdc	95-177V	1800W	2200W	5400W	16KG
PBMPLS-120IA-RM	120Vdc	95-177V	2500W	3000W	7500W	22KG
PBMPLS-120Z-RM	120Vdc	95-177V	3500W	4100W	10500W	24KG
PBMPLS-120ZC-RM	120Vdc	95-177V	5000W	6000W	15000W	30KG