

PBMPLS Series

DC/AC SINEWAVE INVERTER

FEATURES

- 500W - 7000W
- True Sinewave Output
- Massive Overload Capability
- High Efficiency Toroidal Transformer
- CCT Breaker/ Batt Isolator Switch
- Chassis and Wall mounting



SPECIFICATIONS

INPUT

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

OUTPUT

Output Voltage	230Vac \pm 4% (Standard) 110Vac \pm 4% (Option)
Output Frequency	50/60Hz \pm 0.1
Output Waveform	True sinewave < 4% THD.
Power factor correction	All conditions.
Crest factor	>4
Load start sensitivity	0-20W
Efficiency	94%Typically

PROTECTION

DC to AC isolation	3500V
Over-load protection	Yes.
Over-temperature protection	Yes.
Short circuit protection	Yes.
Battery under and over voltage protection	Yes.

Circuit breaker On/Off

The circuit breaker by pushing switch "UP" the battery supply is connected to the inverter. The circuit breaker will turn OFF automatically if too large a load is left on the inverter continuously. Reset the switch after allowing approx 5mins to cool. 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.

ENVIRONMENT

Temperature range	-10°C to 50°C
Cooling	Thermostatically controlled 2-speed fan.

STANDARDS & APPROVALS

Safety standards	AS3100, AS3000
C-tick	AS/NZS CISPR14, AS/NZS 1044
EMC standards	AS2279, 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 secs 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 secnds, 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).
D	Twin switched RCD GPO (available only on 1000W to 5000W models).

MECHANICAL

AC outlet	Single power outlet (500-600W models). Single power outlet & screw terminal junction box (1000-1800W models). Screw terminal junction box (2000-7000W models).
Battery leads	Heavy duty low loss battery leads Red battery positive, Black battery negative
Dimensions	500-600W: 260x160x100mm 1kw-1.8kw: 330x296x150mm 2kw-3.5kw: 370x386x180mm 4kw-7kw: 475x458x187mm

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SELECTION TABLE

MODEL NUMBER	DC INPUT	INPUT RANGE	CONTINUOUS RATING	½ HOUR RATING	SURGE 5 SEC	WEIGHT
PBMPLS-12U	12Vdc	10.5-17V	500W	550W	1500W	5.5KG
PBMPLS-12W	12Vdc	10.5-17V	1000W	1150W	3000W	11KG
PBMPLS-12V	12Vdc	10.5-17V	1500W	1600W	4500W	14KG
PBMPLS-12I	12Vdc	10.5-17V	2000W	2200W	6000W	22KG
PBMPLS-24X	24Vdc	21-34V	600W	750W	2000W	5.5KG
PBMPLS-24V	24Vdc	21-34V	1200W	1600W	3600W	11KG
PBMPLS-24I	24Vdc	21-34V	1800W	2200W	5400W	14KG
PBMPLS-24IA	24Vdc	21-34V	2300W	2800W	7000W	22KG
PBMPLS-24Z	24Vdc	21-34V	3000W	3700W	9000W	24KG
PBMPLS-24ZA	24Vdc	21-34V	4000W	4500W	12000W	30KG
PBMPLS-48X	48Vdc	42-68V	600W	750W	2000W	5.5KG
PBMPLS-48V	48Vdc	42-68V	1200W	1600W	3600W	11KG
PBMPLS-48I	48Vdc	42-68V	1800W	2200W	5400W	14KG
PBMPLS-48IA	48Vdc	42-68V	2500W	3000W	7500W	22KG
PBMPLS-48Z	48Vdc	42-68V	3500W	4100W	10500W	24KG
PBMPLS-48ZC	48Vdc	42-68V	5000W	6000W	15000W	30KG
PBMPLS-48ZH	48Vdc	42-68V	7000W	8500W	20000W	34KG
PBMPLS-96X	96Vdc	77-140V	600W	750W	2000W	5.5KG
PBMPLS-96V	96Vdc	77-140V	1200W	1600W	3600W	11KG
PBMPLS-96I	96Vdc	77-140V	1800W	2200W	5400W	14KG
PBMPLS-96A	96Vdc	77-140V	2500W	3000W	7500W	22KG
PBMPLS-96Z	96Vdc	77-140V	3500W	4100W	10500W	24KG
PBMPLS-96ZC	96Vdc	77-140V	5000W	6000W	15000W	30KG
PBMPLS-96ZH	96Vdc	77-140V	7000W	8500W	20000W	34KG
PBMPLS-120X	120Vdc	95-177V	600W	750W	2000W	5.5KG
PBMPLS-120V	120Vdc	95-177V	1200W	1600W	3600W	11KG
PBMPLS-120I	120Vdc	95-177V	1800W	2200W	5400W	14KG
PBMPLS-120IA	120Vdc	95-177V	2500W	3000W	7500W	22KG
PBMPLS-120Z	120Vdc	95-177V	3500W	4100W	10500W	24KG
PBMPLS-120ZC	120Vdc	95-177V	5000W	6000W	15000W	30KG
PBMPLS-120ZH	120Vdc	95-177V	7000W	8500W	20000W	34KG