PBMPLS Series

500-7000 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**
- **Wall mounted design.**



Specifications

INPUT	
Voltage	12, 24, 48 (Standard).36, 72, 96, 120 (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.
OPERATING	
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.
Dimensions	500-600W: 260x160x100mm. 1000-1800W: 330x296x150mm. 2000-3500W: 370x386x180mm. 4000-7000W: 475x458x187mm.
Cooling	Thermostatically controlled 2-speed fan.

STANDARDS AND APPROVALS	
Safety standards	AS3100, AS3000
C-tick	AS/NZS CISPR14, AS/NZS 1044
EMC standards	AS2279, EN55014
ENVIRONMENTAL	
Temperature Range	-10°C to 50°C, derate above 40°C by 10%

Options

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).

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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	12V	10.5-17V	500W	550W	1500W	90%	5.5KG
PBMPLS-24X	24V	21-34V	600W	750W	2000W	92%	5.5KG
PBMPLS-48X	48V	42-68V	600W	750W	2000W	93%	5.5KG
PBMPLS-12W	12V	10.5-17V	1000W	1150W	3000W	91%	11KG
PBMPLS-24V	24V	21-34V	1200W	1600W	3600W	92%	11KG
PBMPLS-48V	48V	42-68V	1200W	1600W	3600W	94%	11KG
PBMPLS-12V	12V	10.5-17V	1500W	1600W	4500W	91%	14KG
PBMPLS-24I	24V	21-34V	1800W	2200W	5400W	94%	14KG
PBMPLS-48I	48V	42-68V	1800W	2200W	5400W	94%	14KG
PBMPLS-12I	12V	10.5-17V	2000W	2200W	6000W	90%	22KG
PBMPLS-24IA	24V	21-34V	2300W	2800W	7000W	94%	22KG
PBMPLS-48IA	48V	42-68V	2500W	3000W	7500W	94%	22KG
PBMPLS-24Z	24V	21-34V	3000W	3700W	9000W	93%	24KG
PBMPLS-48Z	48V	42-68V	3500W	4100W	10500W	94%	24KG
PBMPLS-24ZA	24V	21-34V	4000W	4500W	12000W	94%	30KG
PBMPLS-48ZC	48V	42-68V	5000W	6000W	15000W	95%	30KG
PBMPLS-48ZH	48V	42-68V	7000W	8500W	20000W	95%	34KG