



# Load-shedding? No stress! Get a PowerBox.

**Efficient. Reliable. Affordable.**

PowerBox will power: Alarm Systems, TV/Decoder, Wifi/Router, Laptop/Phone & Lights.



# POWER BOX DC/AC HYBRID SYSTEMS

## Specifications

Product specifications are subject to change without notice.



MODEL	PB/UP1000-M3212	PB/UP1500-M3222	PB/UP2000-M3322
Nominal Battery Voltage	12VDC	24VDC	24VDC
Battery Input Voltage Range	10.8 - 16VDC	21.6 - 32VDC	21.6 - 32VDC
<b>INVERTER OUTPUT</b>			
Continuous output power	800W	1200W	1600W
Output Power (15min)	1000W	1500W	2000W
Overload Power (5s)	1600W	2400W	3200W
Maximum Surge Power	2000W	3000W	4000W
Output voltage range	220VAC (- +5%) - 230VAC(-10% - +5%)	220VAC (±5%) - 230VAC(-10% - +5%)	220VAC (±5%) - 230VAC(-10% - +5%)
Output frequency	50/60Hz (0.1Hz)	50/60Hz (0.1Hz)	50/60Hz (0.1Hz)
Output mode	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Output wave	Single phase	Single phase	Single phase
Distortion THD	≤3% (12V resistive load)	≤3% (24V resistive load)	≤3% (24V resistive load)
Maximum efficiency	91%	95%	95%
Transfer time	0-20ms (resistive load)	0-20ms (resistive load)	0-20ms (resistive load)
<b>UTILITY INPUT</b>			
Utility input voltage range	160VAC-280VAC (working voltage range)	160VAC-280VAC (working voltage range)	160VAC-280VAC (working voltage range)
	170VAC-270VAC (working voltage range)	170VAC-270VAC (working voltage range)	170VAC-270VAC (working voltage range)
Max. Utility charge current	20A	20A	30A
<b>SOLAR CHARGING</b>			
Max. PV open circuit voltage	46V	92V	92V
Max. PV input Power	390W	780W	780W
Max. PV charging Current	30A	30A	30A
Equalisation voltage	14.6V	29.2V	29.2V
Boost voltage	14.4V	28.8V	28.8V
Float voltage	13.8V	27.6V	27.6V
Tracking efficiency	≤99.5%	≤99.5%	≤99.5%
Charging conversion efficiency	98%	98%	98%
<b>GENERAL</b>			
Zero load consumption	≤0.1.2A	≤0.6A	≤0.8A
Enclosure	IP30	IP30	IP30
Relative humidity	<95%	<95%	<95%
Working environment temp. <sup>2</sup>	-20°- 50°C	-20°- 50°C	-20°- 50°C
<b>MECHANICAL PARAMETERS</b>			
Dimensions (mm) - L x W x H	386 x 300 x 126	386 x 300 x 126	444 x 300 x 126
Net weight	7.3g	7.4kg	8.5kg

<sup>1</sup> At 25°C environment temperature

<sup>2</sup> Full input and output without de-rating factor

### Important:

Size and number of batteries indicated; bigger/larger batteries offer greater power storage; but can be added at a later stage to improve or upgrade the basic system.

All 24V systems require a minimum of 2x12V batteries (connected in series)  
100Ah/150Ah/200Ah

This home system is also factory fitted with a 2m battery cable.

