



BM - E 1KVA 12V SOLAR HYBRID INVERTER



HIGH CURRENT CHARGER



DSP BASED TECHNOLOGY



NOISELESS OPERATION



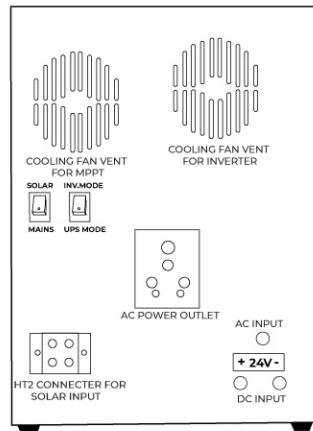
PURE SINE WAVE OUTPUT



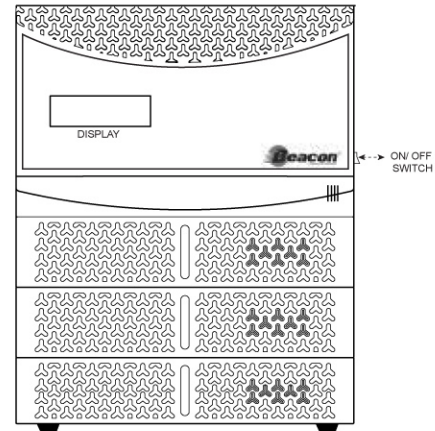
www.beaconpowersys.com

BM - E 1KVA 12V SOLAR HYBRID INVERTER

TECHNICAL DATA SHEET



BACK VIEW



FRONT VIEW

SYSTEM DETAILS

System Model Name	BM - E 1KVA 12V
Capacity	1000VA/800W
Nominal DC Voltage	12V
Inv. Switching Device	MOSFET
Grid Charger Topology	Inv. Bridge Boost
Solar Switching Device	MOSFET
Solar Charger Topology	MPPT Buck

MECHANICAL DATA

Dimension (L X W X H)	295mm X 240mm X315mm
Operating Temperature	0-50°C
Cooling	FORCED AIR COOLING
Noise@1m	<50dB
Weight(kg)	11.25
Max Relative Humidity@ 25°C	95%

PARAMETERS(GRID)

Nominal Grid Voltage	230 VA 1φ
Nominal Frequency	50Hz ±1%
UPS mode	190-255V
Battery Charging Voltage	14.4V
Retrigger at	13.5 V

PARAMETERS(SOLAR)

VOC max	40-50V DC
Max Panel	550Wp
Battery Charging Current Control(Optional)	>400Wp(BM)
Battery Charging Voltage	14.5 V DC

MODE SETTING

Grid to Battery	14.4 V DC
Grid Reconnect	11.5 V DC

Switches & Controls

System	System ON/OFF
Mode Select	UPS/ Inverter
Charger Select	Grid/ Solar



PARAMETERS(INVERTER)

Nominal Output Voltage	220VAC 1 ϕ
Nominal Frequency	50Hz
Output Waveform	Pure Sine Wave
Battery Low Buzzer	11.2 V
Battery Low Cut	10.8 V

PROTECTIONS

Over Load, Short Circuit, Over Temperature

LCD

SINGLE LINE DISPLAY	AC Input Voltage, AC Output Voltage, Charging Mode Grid/Solar, Grid Charging Current, Temperature, Output Load
Fault Conditions	Battery Low, OverLoad, No Feed Back, Over Temperature

DISPLAY

