

3.0KW HYBRID SOLAR INVERTER DATASHEET

Model: BST-HPL-3000W

Product Features

- Built-in MPPT solar charge controller for optimal solar performance.
- Stable and continuous pure sine wave AC output.
- PC and mobile monitoring capability (RS485/RS232 standard, GPRS/WIFI optional).
- Supports hybrid charging from solar and AC grid.
- Fast transfer time ensures seamless power supply.
- Designed for residential and small commercial applications.

Parameter	Specification
Model	BST-HPL-3000W
Rated Power	3600VA / 3000W
AC Input Voltage Range	170–280VAC (for personal computers) / 90–280VAC (for home appliances)
Frequency Range	50Hz/60Hz (auto sensing)
AC Voltage Regulation (Battery Mode)	230VAC $\pm 5\%$
Surge Power	6000W
Efficiency (PV to Inverter)	98%
Efficiency (Battery to Inverter)	94%
Transfer Time	10ms (PC) / 20ms (home appliances)
Waveform	Pure sine wave
Battery Voltage	24VDC
Floating Charge Voltage	27VDC
Overcharge Protection	28.8VDC
Max. PV Array Open Circuit Voltage	500VDC
MPPT Voltage Range	40–500VDC
Max. Solar Charging Current	100A
Max. AC Charging Current	60A
Max. Solar + AC Charging Current	100A
Solar Charger Type	MPPT
Communication Interface	RS485 / RS232 (Standard), GPRS/WIFI (Optional)
Operating Temperature	0°C – 55°C
Dimension (D×W×H)	399 × 285 × 118 mm
Net Weight	6 kg

Applications

- Residential solar energy systems
- Small commercial and shop backup power
- Off-grid and hybrid systems
- Solar + grid integration for reduced electricity bills.

Contact Information

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