

5.5KW HYBRID SOLAR INVERTER DATASHEET

Model: BST-HPL-5500W

Product Features

- Integrated MPPT solar charge controller for maximum solar efficiency.
- Delivers pure sine wave AC output for stable and safe power.
- PC/Mobile monitoring capability (RS485/RS232 standard, GPRS/WIFI optional).
- Supports solar and grid hybrid charging.
- High surge capacity for starting inductive loads.
- Ideal for home and small business energy storage systems.

Parameter	Specification
Model	BST-HPL-5500W
Rated Power	6600VA / 5500W
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	11,000W
Efficiency (PV to Inverter)	98%
Efficiency (Battery to Inverter)	94%
Transfer Time	10ms (PC) / 20ms (home appliances)
Waveform	Pure sine wave
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	57.6VDC
Max. PV Array Open Circuit Voltage	500VDC
MPPT Voltage Range	60–500VDC
Max. Solar Charging Current	100A
Max. AC Charging Current	100A
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)	495 × 312 × 125 mm
Net Weight	8.5 kg

Applications

- Whole-house solar energy systems
- Small business backup and off-grid systems
- Solar + grid hybrid power solutions
- Renewable energy storage with high-load capacity.

Contact Information

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