

5000W SOLAR GENERATOR - DATASHEET

Product Features

- All-in-one design: Inverter, controller, and battery built-in for easy installation and use.
- Wide PV input range: 120–500 VDC, 90A MPPT controller.
- Hybrid mode: Charge from solar and grid, 3–5 hours charging time.
- Battery type: LiFePO₄ with 10+ years lifespan, over 5000 cycles.
- Multiple outputs: 220V AC, USB DC, 12V DC.
- Protections: Overload, overvoltage, low voltage, high temperature, etc.
- Applications: Home, outdoor, car, yacht.

Technical Specifications

Specification	Details
Model	BST-SPSS-5000W
Rated Power	5000 W
Peak Power	11000 W
Battery Voltage	51.2 VDC
AC Input Voltage Range	170–280 VAC (PCs) / 90–280 VAC (Home Appliances)
AC Input Frequency Range	45–65 Hz (Auto recognition)
Output Voltage (Battery Mode)	230 VAC ±5%
Output Frequency (Battery Mode)	50 Hz / 60 Hz
Output Waveform	Pure sine wave
Output Voltage (AC Mode)	230 VAC
Output Frequency (AC Mode)	Auto tracking
AC Charging Current (Max)	60 A
AC Charging Method	Three-stage (Constant Current, Constant Voltage, Floating Charge)
Solar Charger Type	MPPT SMART Controller
Max PV Input Voltage (25°C)	500 V
PV Input Voltage Range	120–500 V
Charge & Discharge Current	90 A
Max PV Input Power	4500 W
Solar Panel Standard	8 × 460 W / 41 V (8S1P)
Inbuilt Battery Capacity	51.2 V, 200 Ah
Transfer Time	10 ms (PCs); 20 ms (Home Appliances)
Operating Temperature	0°C – 55°C

Storage Temperature	-15°C – 60°C
Net Weight (with battery)	109 kg
Dimensions (L×W×H)	680 × 455 × 540 mm

Appliance Usage Time (Approx.)

Appliance	Power Rating	Runtime
Mobile Phone	5 W	2000 hrs
50" TV	110 W	92 hrs
LED Light	10 W	1013 hrs
PC	200 W	50 hrs
Fan	60 W	168 hrs
Fridge	150 W	67 hrs
Cooker	500 W	10 hrs
1P AC	735 W	27 hrs

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