

1500W SOLAR GENERATOR DATASHEET

Product Features

- All-in-one design: Inverter, controller, and battery built-in for easy installation and use.
- Wide PV input range: 90–430 VDC, 80A 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

Specifications	Details
Model	BST-SPSS-1500W
Rated Power	1500 W
Peak Power	3000 W
Battery Voltage	12.8 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)	450 V
PV Input Voltage Range	90–430 V
Charge & Discharge Current	80 A
Max PV Input Power	1400 W
Solar Panel Standard	3 × 460 W / 41 V (3S1P)
Inbuilt Battery Capacity	12.8 V, 200 Ah
Transfer Time	≤4 ms
Operating Temperature	0°C – 55°C

Storage Temperature	-15°C – 60°C
Net Weight (with battery)	41.9 kg
Dimensions (L×W×H)	520 × 260 × 562 mm

Appliance Usage Time (Approx.)

Appliance	Power Rating	Runtime
Mobile Phone	5 W	600 hrs
50" TV	110 W	28 hrs
LED Light	10 W	307 hrs
PC	200 W	15 hrs
Fan	60 W	51 hrs
Fridge	150 W	20 hrs
Cooker	500 W	6 hrs

Contact Information

Brand: Entelechy

Email: bultecenginneringsolutions@gmail.com

Website: www.entelechy-ug.com

Phone: +256 200 930 008

Address: Plot 58 Ntinda – Kisasi Road