

SMART ENERGY STORAGE SYSTEM

5.12KWh [All in One]

ENP5K100



KEY FEATURES



All-in-One Design

Battery, inverter, BMS, and EMS are fully integrated into one unit, simplifying the procurement process.



Safe & Reliable

IP20 Protection Rating. Modular design, natural cooling, indoor use



Smart Technology

Intelligent temperature control guarantees battery safety and longevity.



Extended Service Life

Optimized cycle life exceeds 6000 cycles for long-lasting reliability.



Easy Installation

Auto ID, Modular design allows for quick and seamless integration.



Display Screen Design

Real-Time Information Monitoring, easy to adjust.

Model	ENP5K100
Main Parameter	
Cell Chemistry	LiFePO4
System Nominal Voltage (V)	51.2
System Operating Voltage (V)	43.2~57.6
System Energy (kWh)	5.12
System Usable Energy(kWh)	5
AC Input/Output Parameters	
Ac Input voltage(V)	AC 230 V
Optional Voltage(V)	170-280V AC(Personal Computer)
Optional Voltage(V)	90-280v AC(Home Load)
Frequency Range(Hz)	50Hz/60Hz (Auto Sensing)
Max AC Charge Current(A)	60A @DC 57.6V
AC Output Voltage(V)	230V AC ±5%
Efficiency (Peak)	Upto 93.5%
Transfer Timey(ms)	10ms (Personal Computer); 20ms (Home Load)
Surge Power(VA)	11000VA
Waveform	Pure Sine Wave
PV Voltage Range(V)	120V-450V DC
Max. PV Open Circuit Voltage(V)	500V DC
Max. Solar Charge Current(A)	100A @ 57.6 DC
Max. PV Array power(W)	6000W
Working Temperature(°C)	Charge: -10~50/Discharge:-20~55
Display	Color LCD touch screen display
Communication Port	RS232/RS485
Humidity	5~85%RH
Altitude	≤3000m (Derating above 2000m)
IP Rating of Enclosure	IP20
Dimension (W/D/H,mm)	555* 708* 180
Weight Approximate (kg)	58
Installation Location	Floor Mount
Storage Temperature(°C)	0~35
Recommend Depth of Discharge	90%
Cycle Life	25±2°C, 0.5C/0.5C, EOL70%≥6000
Warranty	10years
Certification	CE/IEC62619/ MSDS/ UN38.3

- 1 DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- 2 The current is affected by temperature and SOC.
- 3 The warranty is due whichever reached first of warranty period or life cycle power.