Lithium Energy Storage System

ALL-IN-ONE 8KW Off-Grid Inverter + Scalable $LiFePO_4$ Battery Module

ESS8K ENERGY SYSTEM

- ALL IN 1 — INVERTER + LI-ION BMS SYSTEM
- 8KW — MAXIMUM INVERTER POWER OUTPUT
- 2X — DUAL MPPT INPUT MAX 8KW PV ARRAY
- FAST CHARGING HIGH EFFICIENCY
- 95% — HIGH PERFORMANCE 95% D.O.D.
- MODULAR DESIGN EASY EXPANSION
- 100% COMPATIBLE BMS W/ MPP SOLAR

8KW + 10KWH STORAGE

8KW + 5KWH STORAGE

BUILT-IN BMS

BUILT-IN WIFI

Bundled ESS Accessories:

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LITHIUM ENERGY STORAGE SYSTEM

LITHIUM ESS SYSTEM	ESS8K100	ESS8K200
INVERTER SPECIFICATION		
Rated Inverter Power	8KW	
Overload Capacity	100ms@≥205% load;5s@≥150% load; 10s@110%~150% load	
Parallel Capability	Up to 3 (single phase or 3-phase)	
Nominal Input Voltage	230 VAC	
Maximum Input Voltage	300 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Output Waveform	Pure sine wave	
Output Voltage Regulation	230 VAC± 5%	
Peak Efficiency (inverter mode)	93%	
THDV	<5% for linear load,<10% for non-linear load	
Transfer Time (single)	~10ms (UPS) / ~20ms (APL)	
Transfer Time (parallel）	Max ~50ms	
No Load Power Consumption	<75W	
SOLAR CHARGER SPECIFICATION		
Solar Charger type	MPPT	
Maximum PV Array Power	8000W	
Maximum PV Array Voc	500Voc	
MPPT Range	90 - 450 VDC	
Max PV Input Current	18A (X 2)	
PV Input	2	
BATTERY SPECIFICATION		
Nominal Capacity	100Ah	200Ah (2 modules)
Nominal Voltage	51.2 VDC	
Max Full Charge (FC)	56 VDC	
Max Discharge Voltage	42 VDC	
Max Continuous Discharge Current	150A	
Maximum Stackable Module	10 modules	
GENERAL SPECIFICATION		
Operating Temperature	0°C ~ 50°C	
Recommended Storage Temperature	-10°C ~ 55°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Inverter Dimension	620x500x214mm	540x420x185mm
Inverter Net Weight	25Kg	
Battery Module Dimension	620x550x214mm	620x1600x214mm
Battery Net Weight	55Kg	110Kg