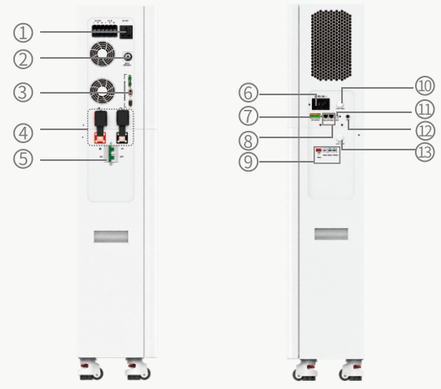
230V All-in-One ESS
6.2KW - 10KWH, 16KWH
12KW - 16KWH



Features

- All-in-one compact size ESS.
- Grade A LiFePO4 cells, support long life cycle (> 6000 cycles @25 °C, 0.2C 80% DOD).
- Smart LCD settings (working mode, charging current, charging voltage, etc).
- Complete protection functions.
- Supports RS485, CAN, WiFi / GPRS monitoring.
- Supports a maximum of 6pcs in parallel operation.

Interface Description



1. AC Input & Output Terminal
2. AC Input Circuit Breaker
3. Parallel Communication Port
4. Battery Terminal (+, -)
5. Battery Circuit Breaker
6. PV Input Terminal (+, -)
7. Dry Contact Port
8. RS485 / BMS Communication Port
9. Battery Communication Port
10. Inverter On / Off Switch
11. USB Communication Port
12. WiFi Stick Port
13. Battery On / Off Switch

Solar System Connection



Technical Specifications

MODEL	ESS-6.2KW-10KWH-EU	ESS-6.2KW-16KWH-EU	ESS-12KW-16KWH-EU
BATTERY			
Battery Type		$LiFePO_4$	
Battery Energy	10.24 kWH	16 kWH	16 kWH
Rated Battery Voltage		51.2VDC	
Battery Voltage Range		40-60VDC	
Max. Charging Current	100A	100A	150A
Max. Discharging Current	200A	200A	300A
Cycle Life		> 6000 cycles (25 °C, 0.2C 80% DOD)	
Charging Temperature		0°C ~ 55 °C	
Discharging Temperature		-22°C ~ 55°C	
INVERTER OUTPUT			
Rated Output Power	6200VA / 6200W	6200VA / 6200W	12000VA / 12000W
Surge Power	12000VA	12000VA	24000VA
Output Waveform		Pure sine wave	
Rated Output Voltage		230VAC±5%	
Output Frequency		50Hz / 60Hz	
Efficiency		>92%	
Transfer Time		10ms typically, 20ms max	
Overload Capability		100% < load <125% : 5 minutes; 125% < load <150% : 10 seconds; Load >150%: 5 seconds	
Power Saving Mode	Load≤25W	Load≤25W	Load≤50W
AC INPUT			
Rated Input voltage		230VAC	
Input Voltage		170-280VAC (UPS mode); 90-280VAC (Appliance mode)	
Input Frequency		47-55Hz (50Hz) or 57-65Hz (60Hz) auto sense	
Max Bypass Overload Current	40A	40A	63A
SOLAR & AC CHARGING			
No. of MPPT Tracker	1	1	2
Max. PV Input Voltage		500VDC	
Max. PV Input Power	6500W	6500W	9000W + 9000W
Max. PV Input Current	27A	27A	27A + 27A
MPPT Range		90-450VDC (startup voltage 120VDC)	
Max .PV Charging Current	100A	100A	150A
Max AC Charging Current	80A	80A	150A
Max Total Charging Current	100A	100A	150A
OTHER			
Communication		USB, RS485 / CAN, WiFi / GPRS, Dry contact	
Parallel Function		Yes, max 6pcs	
Cooling		Forced air cooling, intelligent variable speed fan	
Noise Level		≤60dB at 1m distance	
Ingress Protection		IP21	
OPERATING CONDITIONS			
Operating Temperature		0°C - 50°C	
Storage Temperature		-15°C ~ 50°C	
Operating Humidity		10%-90%, non-condensing	
PACKING			
Product Size (W x H x D)		552x1210 x254 mm	
Net Weight	100 kgs	130 kgs	130 kgs
Package Size (L x W x H)		635x335 x1370 mm	
Gross Weight	120 kgs	150 kgs	150 kgs