

Single Phase All-in-one ESS

6.0kW Off-grid Inverter&5.12kWh Battery

INVERTER FEATURES

- Built-in 120A Solar Charge**
- Wide MPPT Range 60~500V
- 28A Max PV Input**
- Dual AC In&Dual AC-Out
- 9 Inverters in parallel**
- Noise Control Algorithm
- Feed-in to Grid**
- WiFi Monitoring



BATTERY FEATURES



>6000
Cycle Life@25°C



Voltage Wake-up
Under off-grid System Environment



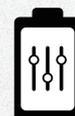
Remote Monitoring
Real time monitoring of power usage and battery pack operation



Multiple Safety Protection
Mos, DC Breaker

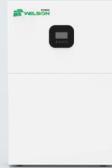


Smart BMS
Intelligent management & maintenance of battery systems



Voltage Balancing
Voltage Balancing between Battery Cells&Battery Pack

● Technical Specifications

Product Image	
Product Name	Single Phase All-in-one ESS
AC Input	
Rated Input Voltage	208/220/230/240V;L+N+PE
Voltage Range	90~280±3V (normal mode); 170~280±3V (UPS mode)
Frequency	50/60Hz(Auto Adaptive)
AC Output	
Rated Capacity	6kW
Surge Power	12kVA
Voltage	208/220/230/240V
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time	10ms(normal mode), 10ms(UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Batter Mode)	10min@102%~120%Load, 1min@120%~150%Load; 10S@150%~200%Load, 5s@>200%Load
Max. Efficiency (Batter Mode)	93%@48VDC
Parallel Quantity	9
Charger (PV / AC)	
Solar Charger Type	MPPT
Max. PV input Current / Input Power	28A/9000W
MPPT Range@Operating Voltage	60~450V
Max. PV Open Circuit Voltage	500V
Max. PV Charge Current	120A
Max. AC Charge Current	120A
Max. Charge Current (PV + AC)	120A
Battery	
Battery Type	LiFePO4 Prismatic
Nominal Energy	5.12kWh
Usable Energy*	4.7kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V

● Technical Specifications

Product Image	
Product Name	Single Phase All-in-one ESS
Operating Voltage	48~56V
Recommended Charge&Discharge Current	50A/50A
Max Charge/Discharge Current	60A/60 A
Peak Discharge Current	120A(3S)
Peak Discharge Power	6kW(3S)
Recommended Depth of Discharge (DOD)	93%
Cycle Life	>6000@25 °C
Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature
Interface	
HMI	LCD
Interface	RS485/USB/DrContact/CT/Meter
Monitoring	WiFi(Optional)
Capable of Connecting Generator	Yes
General Data	
Ingress Protection	IP20
Operating Temperature	-10 °C ~50 °C
Relative Humidity	5% ~95% (Non-condensing)
Storage Temperature	-15 °C ~60 °C
Net Weight	65kg
Dimensions (H*W*D)	520*800*150mm
Max. Operating Altitude	4000m(Derating above 1000m)
<p>Testing conditions based on temperature 25 °C at the beginning of life. *Total Energy/Usable Energy measured under specific conditions by Welson 0.2C CC-CV and based on recommended DOD(93%); Information may be subject to change without notice during product improvement.</p>	