



# Residential ESS

All In One Energy Storage System  
Battery Solutions



Prismatic LFP Battery, stable and safe



Rolling design with wheels, easy installation  
Stand upright, Space saving



Inverter integrated, super easy operation with  
LCD controlpanel

## General Specifications

Dimensions W x H x D	550*200*1170mm
Weight	115kg
Operating Temperature Range	-10°C~+50°C
Noise (dB)	<25
Cooling Type	Natural Convection
Operation Humidity	0~95% (No Condensation)
Topology	Battery Isolation
Communication	RS485 CAN
Display	LCD
Warranty	5 Year Product Warranty, 10 Year Performance Warranty

## Battery technical specifications

### Operation

Battery type	LFP (LiFePO4)
Energy Capacity	10.24kwh
Nominal Voltage	51.2V
Operating Voltage Range	44.8-56.5V
Operating temperature range	<60°C
Cycle Life	6000cycle

Hybrid inverter technical specifications		
MODEL	CY48100S100-H	CAN BE SET
<b>INVERTER OUTPUT</b>		
Rated Output Power	5,000W	
Max.Peak Power	10,000VA	
Rated Output Voltage	230Vac(L/N/PE single-phase)	✓
Load Capacity of Motors	4HP	
Rated AC Frequency	50/60Hz	✓
Waveform	Pure sine wave	
Switch Time	10ms (typical)	
Parallel Capacity	1-6 units(single/three phase)	
<b>BATTERY</b>		
Battery Type	Li-ion / Lead-acid / user-defne	✓
Rated Battery Voltage	48Vdc	
Voltage Range	40~60Vdc	✓
Max.MPPT Charging Current	100A	✓
Max.Mains/Generator Charging Current	60A	✓
Max.Hybrid Charging Current	100A	✓
<b>PV INPUT</b>		
Num. of MPP Trackers	1	
Max.PV array power	5,500W	
Max.input current	22A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range	125~450Vdc	
<b>MAINS / GENERATOR INPUT</b>		
Input Voltage Range	90~280Vac	
Frequency Range	50/60Hz	
Bypass Overload Current	40A	
<b>EFFICIENCY</b>		
MPPT Tracking Efficiency	99.9%	
Max. Battery inverter Efficiency	92%	
<b>COMMUNICATION</b>		
Embedded Interfaces	RS485/CAN/USB/dry contact	✓
External Modules (Optional)	Wi-Fi/GPRS	✓
<b>CERTIFICATION</b>		
Safety	CE(IEC62109-1)	
EMC	EN61000	
RoHS	yes	



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