



ESCS (Energy Storage Controller System)

he cabinet energy storage system consists of highperformance lithium battery, BMS battery management system, photovoltaic charging device, inverter device, and corresponding combination to form a multicapacity, power, functional energy storage system.

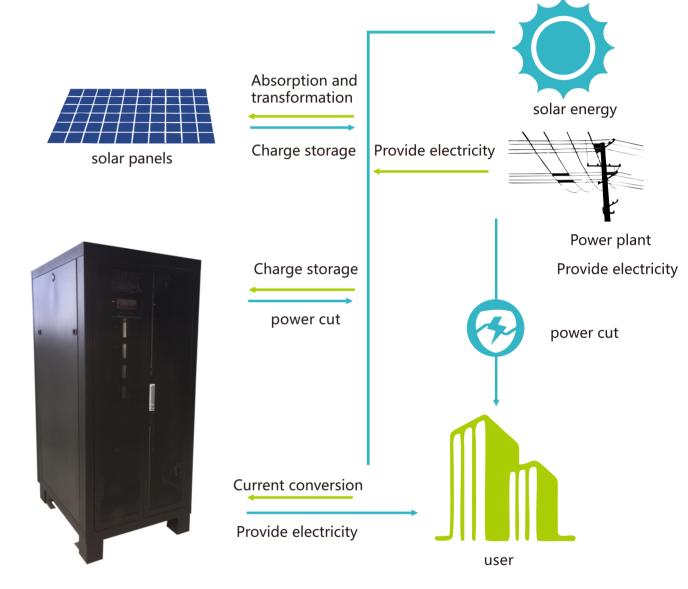


Features

- > Modular design and it will be easy installation and maintenance.
- > High performance and high safety lithium iron phosphate battery has long cycle life, safety, energy saving and environmental protection.
- > Using intelligent management technology to extend battery life.
- > According to customer customization, it can be connected to the grid and run off the network, supporting multi machine parallel operation.
- > Micro grid control functions can be used as a micro grid control center to coordinate and match photovoltaic chargers,
- > With perfect overload protection, over temperature protection, output short circuit protection, input under-voltage protection, input over-voltage protection and other functions, stable performance, high product safety and reliability.
- > It designed with the LCD display, easy to monitor and management.

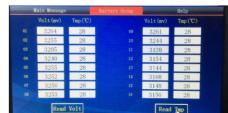
Operational princiople

Energy storage in power system including solar panels, inverter (for AC and DC conversion), and provide backup power for the main electrical backup lines. Household electricity demand different choice of different components.



BMS INTERFACE











DNS	NA	NT
Constant	Electric	Power

Pattory coll					
Battery cell	50114	751111	400144		
Rated capacity	50kW	75kW	100kW		
Battery type		LiFePO4 battery			
Model of cell		3.2V 70A Square aluminum shell			
Battery group array	16S16P	16S22P	16S30P		
Voltage range of battery group		44V ~ 57.6V			
Cycle life	4000 cycles at 80% DOD				
BMS Protection	it Protection, Over Charge Protection, Over Discharge Protection, Reverse Polarity Protection, oltage, Cell Under Voltage and Over Temperature,Low Voltage Cut Off (automatic Reconnect)				
Charge					
Battery charge temperature	0~50°C				
Maximum charge voltage	59±0.5V				
Rated charge voltage	58.4±0.4V				
Nominal charge current	200A	300A	380A		
Discharge					
Battery working temperature		-20°C ~ 60°C			
Allowable maximum discharge					
current	250A 1min	250A 1min	250A 1min		
Rated allowable maximum discharge					
current		200A			
Discharge termination voltage	40				
Self Discharge Rate	Less than 3% per month(nominal temperature)				
Inverter	2033 (1)	an 570 per menanthemanar tempe	oracare)		
Stand-alone Inverter (Off Grid Inverter)					
Туре	Single phase output transformer				
	AC output power continuously 5.0KW/7.5KW/10kW at electrical load type: Unity power factor				
Rated power	AC output power continuously	(pf=1)	r load type . Offity power facto		
Nominal Input Voltage	48VDC				
Output voltage	110V-220VAC				
Output voltage regulation					
Total harmonic distortion (THDv)	±5% at steady state load				
Maximum surge power	Less than 4% when the electrical load is 0.8 lagging power factor				
		200% of nominal power			
Maximum running current	75				
Overload ability(10min)	110%				
AC input frequency	50HZ/60HZ (automatic tracking)				
Output frequency range	50HZ/60HZ±0.3HZ				
Output efficiency	≥90%				
Wave form	Pure sine wave form				
Protection	Over Load, Short Circuit, Over Input Voltage, DC Reverse Polarity, Battery Low Voltage Cut Off				
	(automatic reconnect)				
Communication		RS232/RS485			
Solar Charge Controller					
DC start voltage (VDC)	70V	70V	70V		
Minimum DC start voltage (VDC)	70V	70V	70V		
Maximum DC voltage (VDC)	145V	145V	145V		
Max PV input power at STC	5KW	7.5KW	10KW		
(Standard Test Condition)	JKVV	7.5KW	IONVV		
Output voltage charger to battery	48VDC	48VDC	48VDC		
MPPT charger at STC	2 MPPT 7.68 KW	3 MPPT 14.4 KW	4 MPPT 19.2 KW		
Charge and Discharge controller as S	OC (Stage of Charge)	•	•		
Overcharge Protection, Reverse Polar		Protection			
Loading					
9	Backup time 10 hours with	Backup time 10 hours with	Backup time 10 hours with		
Loading power	loading 5KW	loading 7.5KW	loading 10KW		
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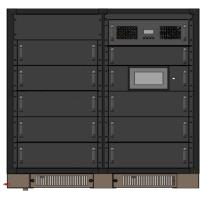


Model: JYH4850

Dimension (W x D x H) mm: 1060 x 905 x 1250

Net Weight:

570 kgs



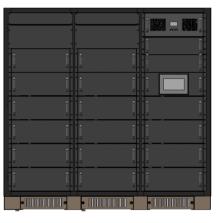


Front View

Rear View

Model: JYH4875

Dimension (W x D x H) mm: 1557 x 941 x 1510 Net Weight: 800 kgs



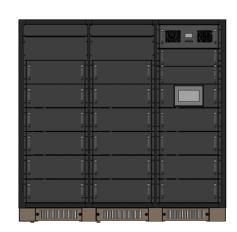


Front View

Rear View

Model: JYH48100

Dimension (W x D x H) mm: 1557 x 941 x 1510 Net Weight: 1150 kgs





Front View

Rear View