

51.2V stacked all-in-one storage lithium battery series



Office electricity



residence



farm



base station

Product features:



Friendly and flexible

- 2-in-1 design: Built-in inverter + battery in stackable units.
- Smart synergy: Auto-load balancing for off-grid use.
- Minimal setup: Reduced cabling for quick deployment.



Safe and reliable

- High operational reliability
- BMS battery protection
- In line with the RoHS



Rich configuration

- Easy to transport and integrate
- High quality battery cells
- WiFi remote monitoring



Intelligent and efficient

- Larger capacity supply equipment cabinet
- No active cooling system is required
- They live for more than 10 years at +25°C

Specifications

Model		YY51100SA	YY51200SA	YY51300SA
Inverter Mode		5KW DC48V		
Rated Output Power		Pure sine wave		
Output Voltage Waveform Output Voltage Regulation		220Vac / 230Vac / 240Vac±5%, 50/60Hz±0.1%		
Output Frequency		40~70Hz±0.1% (Auto Sensing)		
Peak Efficiency		94%		
Overload Protection		1min@102%~110%Load;10s@110%~130%Load;3s@130%~150%Load;0.2s@>150% Load		
Surge Capacity		5.12KWh	10.24KWh	15.36KWh
Nominal DC input Voltage		48VDC		
Cold start Voltage		46VDC		
Low DC Warning VoltageLow DC Cut-off Voltage		44.8VDC		
High DC Recovery Voltage		58VDC		
High DC Cut-off Voltage		60.4VDC		
Charge Mode Specifications				
Charging Current @ Nominal input Voltage		5KW :1-80A		
Absorption	AGM/FLD/LIB/CUs Battery	50VDC		
Voltage	Flooded battery	50VDC		
Floating charging	AGM/FLD/LIB/CUs Battery	58.4VDC		
Voltage	Flooded battery	58.4VDC		
Bulk charging	AGM/FLD/LIB/CUS Battery	57.6VDC		
Voltage(C.V voltage)	Flooded battery	56.8VDC		
Charging Algorithm		CC/CP/VP		
Solar Charging Mode				
Rated Power		5KW		
MPPT charger		60A		
Solar charging current		80A		
Max.PV Array Open Circuit Voltage		450VDC		
PV Array MPPT Voltage Range		120~430VDC		
Min battery voltage for PV charge		42VDC		
Standby Power Consumption		60W		
Line mode charger				
charging current		60A 80A		
Line Voltage Range		90~280Vac±3V(Normal mode) / 170~280Vac±3V(UPS mode)		
Battery Voltage Accuracy		±0.3%		
Voltage Accuracy		±2V		
Charging Algorithm		CC/CP/VP		
Joint Utility and Solar charging		MPPT		
Max. Charging Current		120A		
Default Charging Current		60A		
Battery Model				
Total Energy		5.12KWh	10.24KWH	15.36KWH
Capacity		100Ah*1	100Ah*2	100Ah*3
Nominal Voltage		51.2V	51.2V	51.2V
Float Voltage		58.4V	58.4V	58.4V
Equalization Voltage		56V	56V	56V
Discharge Cutting Voltage		44.8V	44.8V	44.8V
Max.Charge & Discharge Current		100A	100A	100A
Max. C Rating		1C	1C	1C
Dimension		740*430*195mm	1170*430*195mm	1600*430*195mm
Net Weight		65kg	115kg	165kg
Communication Ports		CAN/RS485/RS232		
Charging Temp Range		0~55℃		
Disharging Temp Range		- 10~55℃		
Parallel		support		
Cycle Lifes		≥6000 cycles @80%DOD /0.5C/25℃		
Warranty		5 years		
Certifications		CE,UN38.3,MSDS		
Function		WIFI, Display screen		