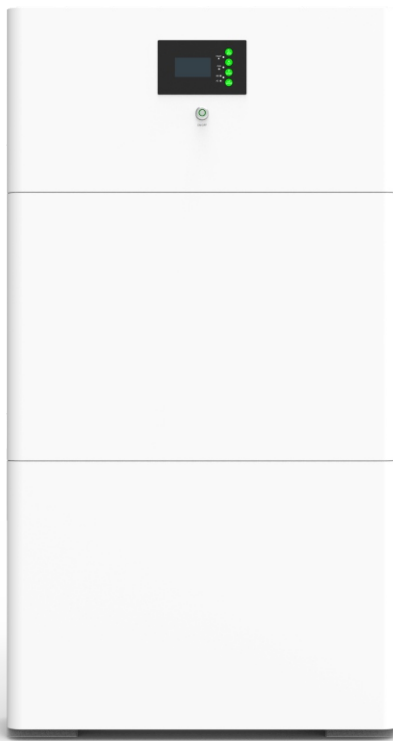


Inverter integrated energy storage battery series



Lithium battery product features:

- Sine wave output
- There are 4 charging modes to choose from: solar power only, mains first, solar first and hybrid charging
- It has two output modes of mains bypass and inverter, with uninterrupted power supply function
- With power saving mode function, reduce no-load loss
- Intelligent adjustable speed fan, efficient heat dissipation, prolong system life

Inverter key features:

- Pure sine wave solar inverter
- Output power factor 1
- Parallel operation up to 9 units
- High PV input voltage range
- Battery independent design
- Built-in 100A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dusk kit for harsh environment

Applareas:

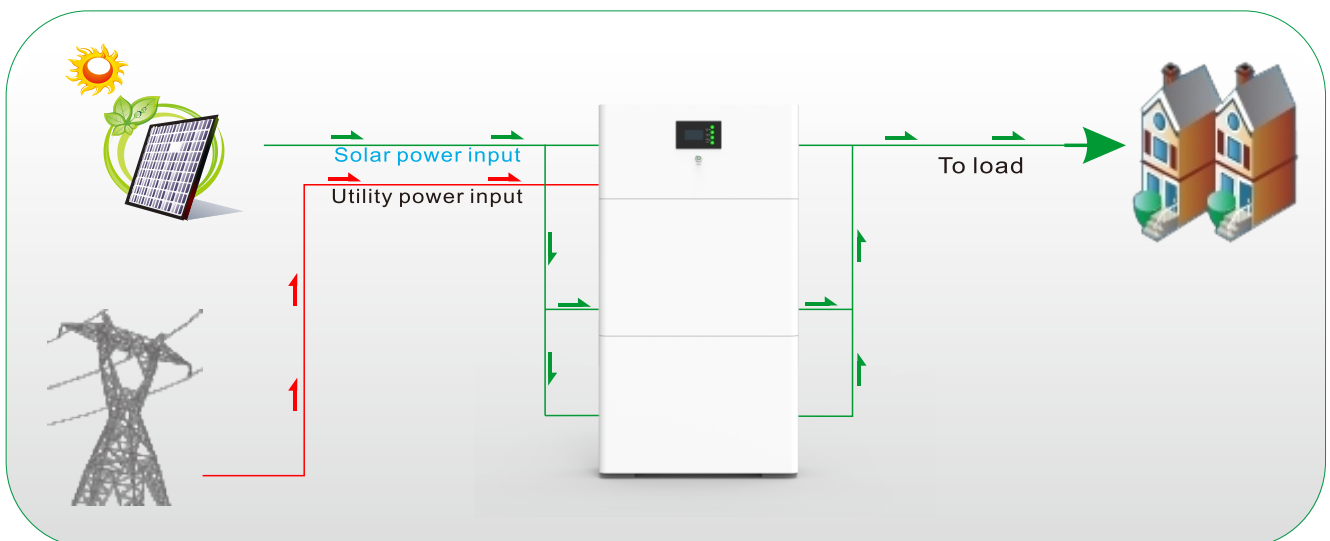
Communication base station, data center, communication outdoor cabinet, solar hybrid power system, home energy storage system

Application scenarios



Hybrid Operation

With battery connected



GSM Plus Series

Wall Mounted Integrated Solar Inverter Technical Specification
Built-in MPPT Solar Charger Controller

MODEL	GSM Plus 3.5KW	GSM Plus 5.5KW
Rated Power	3500VA / 3500W	5500VA / 5500W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	7000VA	11000VA
Efficiency (Peak)	up to 93.5%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Array Power	5500 W	5500 W
MPPT Range @ Operating Voltage	120~450 VDC	120~450 VDC
Maximum Solar Charge Current	100 A	100 A
Maximum AC Charge Current	80 A	80 A
Maximum Charge Current	100 A	100 A
PHYSICAL		
Dimension, D x W x H (mm)	588X310X195	
Net Weight (kgs)	9	10
Communication Interface	USB/RS232	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
Lithium battery		
Model	48100	
Batteries materials	Lithium iron phosphate	
Series parallel mode (S series, P parallel)	16S1P	
Nominal voltage	51.2V	
Nominal capacity	100Ah	
Size (mm)	588X430X195	
Weight	65kg	
Color	Optional	
Charging way	CP/VP	
Charging current	0.2C(standard)	
Maximum charging current	Max0.5C @25°C	
Charge cut-off voltage	58.4V/CELL	
Discharge way	CP/VP	
Discharge current	1C	
Maximum discharge current	Max 1C @25°C	
Discharge cut-off voltage	44.8V	
According to	LCD	
Communication interface	RS485/RS232/CAN	
Charging operating temperature	charging:0~+50°C	
Discharge operating temperature	discharge:-20~+55°C	
The quality assurance period	60 months	