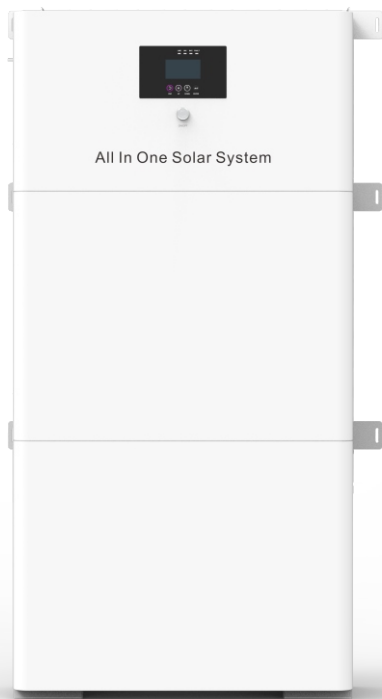


## Inverter integrated energy storage battery series



### 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:

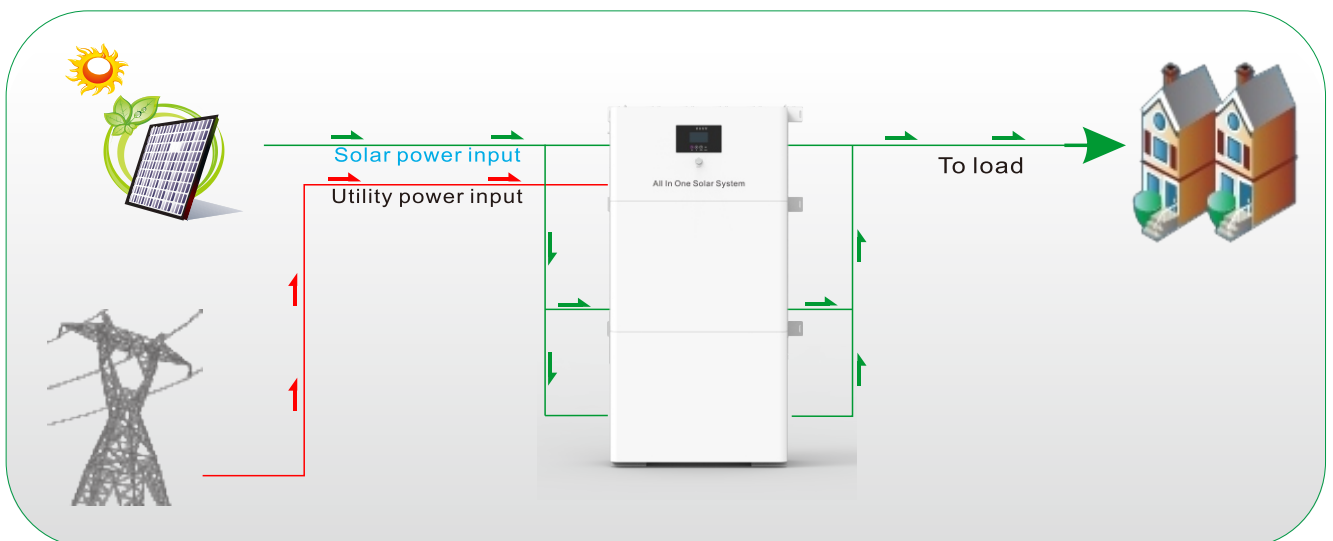
Communication base station, data center, communication outdoor cabinet, solar hybrid power system, home energy storage system

## Application scenarios



## Hybrid Operation

With battery connected



## ESMP 5KW

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

MODEL	ESMP 5KW
Rated Power	5000VA/5000W
<b>INPUT</b>	
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)
<b>OUTPUT</b>	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	10000VA
Efficiency (Peak)	up to 93.5%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
<b>BATTERY</b>	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Array Power	5000W
MPPT Range @ Operating Voltage	120~450 VDC
Maximum Solar Charge Current	100 A
Maximum AC Charge Current	80 A
Maximum Charge Current	100 A
<b>PHYSICAL</b>	
Dimension, D x W x H (mm)	588X310X195
Net Weight (kgs)	10
Communication Interface	USB/RS232
<b>ENVIRONMENT</b>	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
The quality assurance period	12 months
<b>Lithium battery</b>	
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	48kg
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