

# ESS-5K-48-L

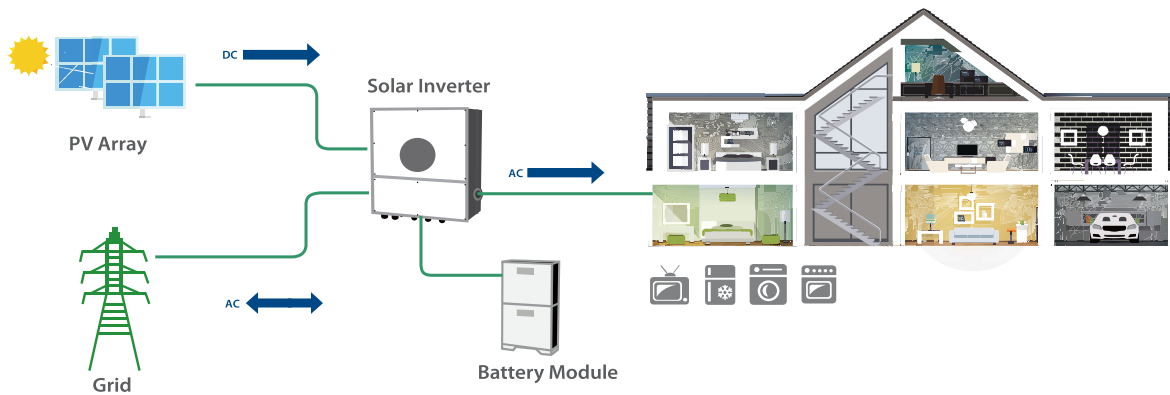


## 5kW Off-grid inverter with 5kWh Lithium-ion battery

- Pure sine wave output
- Built-in Wi-Fi for mobile monitoring ( Android /iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS ( USB/RS232/RS485/WiFi/Dry-contact)
- Congurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Lithium Iron Phosphate ( LFP ) cell
- Scalable Li-Ion battery expansion
- Supports wall mounted and standalone installation



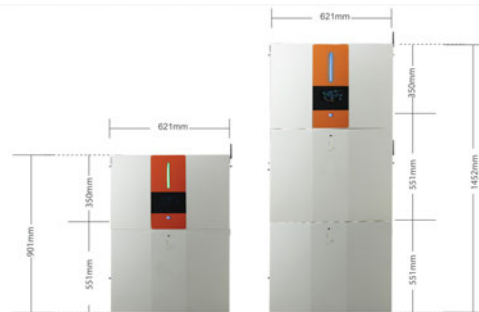
### System Diagram



### 5kW Off-grid inverter with 5kWh Lithium-ion scalable battery module



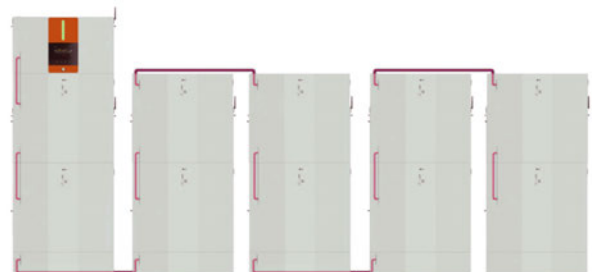
### DIMENSION



### Accessory



### Maximum 10 pcs of battery modules



# ESS Energy Storage System Specification

INVERTER MODEL		ESS-5K-48-L (INV)
Rated Output Power	5000VA/5000W	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Computers); 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5%	
Surge Power	10000VA	
Efficiency (Peak)	93%	
Transfer Time	15 ms (For Personal Computers), 20 ms (For Home Appliances)	
Waveform	Pure Sine Wave	
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Power	5000W	
MPPT Range @ Operating Voltage	120~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum Solar Charge Current	100A	
Maximum AC Charge Current	100A	
Maximum Charge Current	100A	
PHYSICAL		
Dimension, D x W x H (mm)	210 x 621 x 350	
Net Weight (kgs)	15	
STANDARD		
Compliance Safety	IEC/EN 62109-1/-2, EN 61000-6-4, EN 61000-6-2	

BATTERY MODULE		ESS-5K-48-L (BATT)
<b>CAPACITY</b>	5120Wh	
PARAMETERS		
Nominal Voltage	51.2VDC	
Full Charge Voltage (FC)	56V	
Full Discharge Voltage (FD)	42V	
Typical Capacity	100Ah	
Max Continuous Discharging Current	150A	
Max Discharging Current	192A at 1min	
Protection	BMS, breaker	
Charge Voltage	56V	
Charge Current	20A (0.2C)	
Maximum Charge Current	50A (0.5C)	
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C	
Inner Resistance	<20m ohm	
PARAMETERS		
Dimension, D X W X H (mm)	210 x 621 x 551	
Net Weight (kgs)	55	
STANDARD		
Compliance Safety	IEC 62619, EN 61000-6-3, EN 61000-6-1, UKCA, UN38.3	

Product specifications are subject to change without further notice.