

ESS 5KW

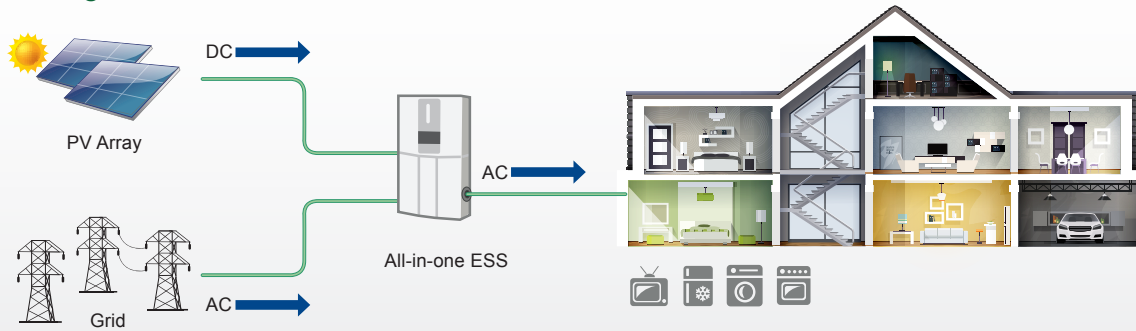
5KW Solar inverter with 5KWh Lithium-ion battery



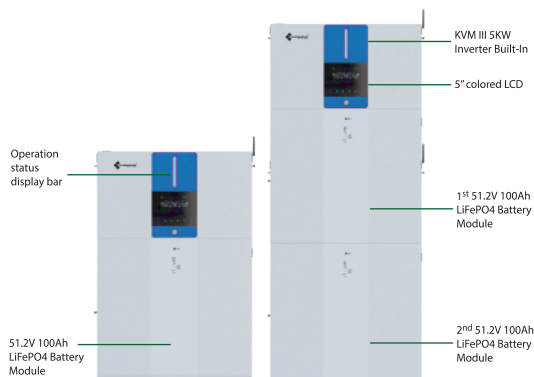
Technical Features:

- Pure Sine wave output
- Built-in Wi-Fi for mobile monitoring (Android/iOS Apps 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 hosphate (LFP) cell
- Scalable Li-Ion battery expansion
- Supports wall mounted and standalone installation

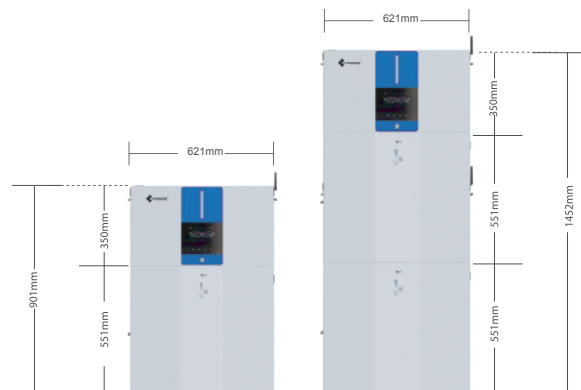
System Diagram



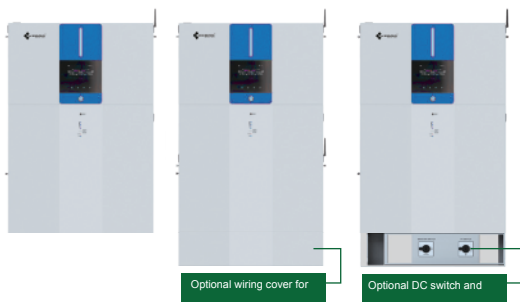
ESS5KW, 5kw off-grid inverter with 5KWh lithium-ion scalable battery module ESS5KW, 5kw off-grid inverter with 5KWh lithium-ion scalable battery module



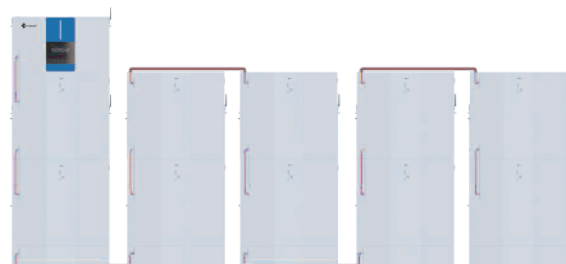
DIMENSION



Accessory



Maximum 10 pcs of battery modules



ESS 5KW

5KW Solar inverter with 5KWh Lithium-ion battery



ESS Energy Storage System Specification

| INVERTER MODEL | ESS 5KW |
|---------------------------------------|---|
| 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 II-4810 |
|------------------------------------|--|
| CAPACITY | 5000Wh |
| PARAMETERS | |
| Battery Cell Technology | Lithium Iron Phosphate |
| 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,UKCAUN38.3 |

Product specifications are subject to change without further notice.



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