

ESS 8KW

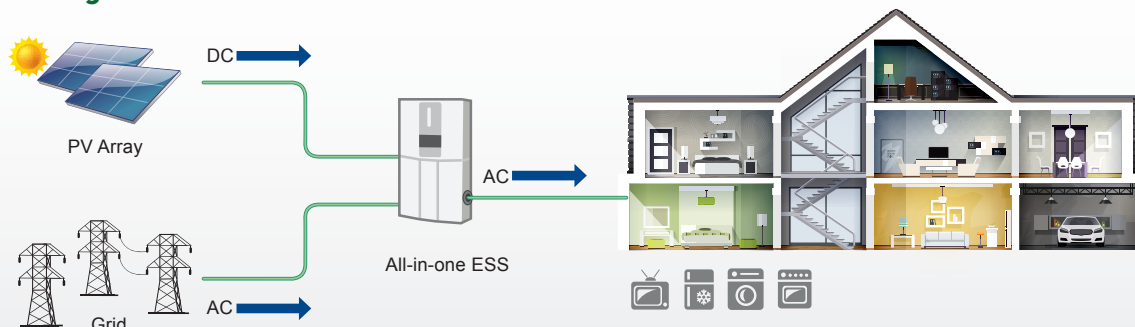
8KW Solar inverter with 5KWh Lithium-ion battery



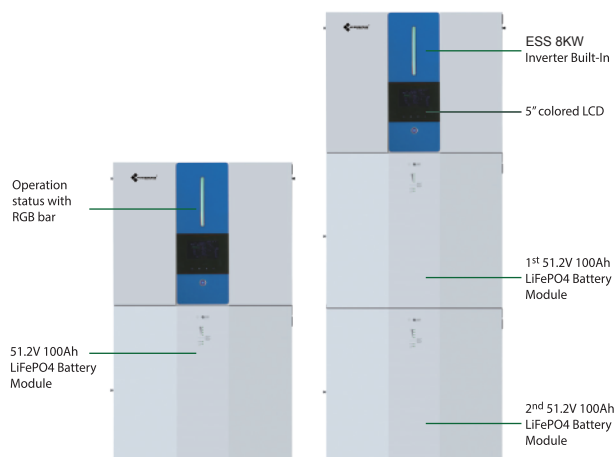
Technical Features:

- Integrated 8kw off-grid inverter and lithium-ion battery module
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable 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
- Scalable Li-Ion battery expansion
- IP20

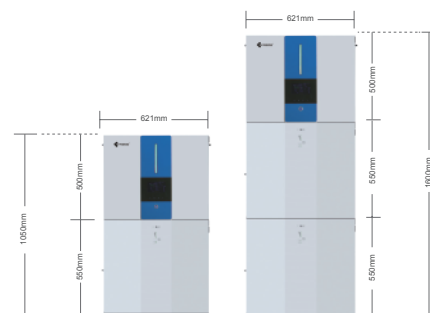
System Diagram



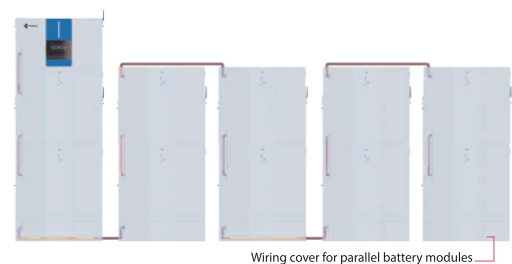
ESS8KW, 8kw off-grid inverter with scalable lithium-ion battery module



DIMENSION



Maximum 10 pcs of battery modules



ESS 8KW

8KW Solar inverter with 5KWh Lithium-ion battery



ESS Energy Storage System Specification

INVERTER MODEL	ESS 8KW
Rated Output Power	8000VA/8000W
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
No Load Power Consumption	<75W
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	8000W(4000W x2)
MPPT Range @ Operating Voltage	90~450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum Solar Charge Current	150A
Maximum AC Charge Current	120A
Maximum Charge Current	150 A
PHYSICAL	
Dimension, D X W X H (mm)	214 x 621 X 500
Net Weight (kgs)	25

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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