

# SPECIFICATION SHEET

STACKMAX ESS 230V 15KWH-30KWH

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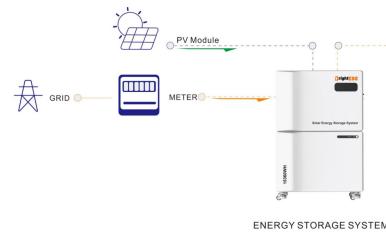
## PRODUCT PRESENTATION

Home ESS refers to the storage of electricity locally by household energy storage equipment for later use. ESS consists of energy storage batteries, inverters and other components. We use brand new A-grade LiFePo4 battery, equipped with an intelligent battery management system for charging and discharging cycles. The inverter converts DC energy to AC energy to meet the requirements for household electricity. Normally this product is installed in combination with PV system to provide green electricity to household users, reduce energy consumption, and reduce negative impacts on the environment. It's widely used in remote areas or areas with unstable power supply, to provide reliable, stable, and cost-effective energy supply.



## WORKING DIAGRAM

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## PRODUCT FEATURES

- Private design, modular arbitrary stacking, automatic dialing, convenient installation and wire free.
- Inverter and controller integrated, multiple protections, MPPT maximum current over 100A
- Full power pure sine wave, stable discharge waveform, better protection for household appliances.
- Famous brand BMS, compatible with most inverters in the market.
- Brand new A-grade LiFePo4, 6000 times cycle life, Lifespan up to 10 years.
- Intelligent LCD display, LED Indicator light, real-time monitoring of operating data.
- Support RS485 and CAN communication ports.

## PRODUCT DIMENSION

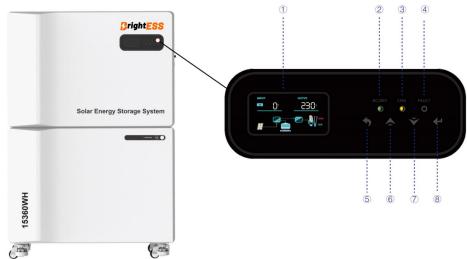
W:26CM



### OPERATION FUNCTION

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#### Inverter LCD Screen

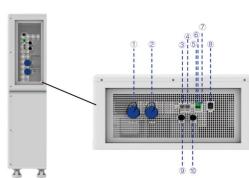


No.	Name	Instruction
①	LCD Screen	Display system operation data
②	Status Indicator	Always on: grid mode, output from AC Flash: battery mode, output from battery or PV
③	Charging Indicator	Always on: battery fully charged Flash: battery charging
④	Fault indicator	Always on: Inverter failure Flash: Inverter warning
⑤	ESC	ESC Mode
⑥	UP	Back to last option
⑦	Down	Turn to next option
⑧	Confirm	Confirm a selection in setup mode or enter setup mode

### OPERATION FUNCTION

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#### Inverter Interface



#### No. Interface Instruction

①	AC OUT
②	AC IN
③	Inverter communication port Rs232
④	BMS communication port Rs485
⑤	Dry contact NC, normally closed contact
⑥	Dry contact C, common contact
⑦	Dry contact NO, normally open contact
⑧	Inverter switch
⑨	PV+
⑩	PV-

#### Battery Indicator Light



#### No. Port Instruction

①	83.0%-100% capacity
②	66.4%-83% capacity
③	49.8%-66.4% capacity
④	33.2%-49.8% capacity
⑤	16.6%-33.2% capacity
⑥	0-16.6% capacity
⑦	warning light
⑧	running light
⑨	battery switch

## PRODUCT PARAMETER

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Model	SCAP-C-512-300(5kW)	SCAP-C-512-300(1kW)	SCAP-C-512-600(11kW)
Rated Power	5.5kW	11kW	11kW
AC Rated Voltage	250VAC		
Rated Frequency	50/60Hz		
Efficiency	>98%		
Transfer Time	10ms		
Waveform	Pure sinusoidal wave		
Battery Overvoltage	58.4V		
Battery Undervoltage Alarm	45V		
Constant Voltage Charge	58.4V		
Float Voltage	56V		
Max Charging Current	100A		
Communication Interface	RS232 (Inverter)/RS485 (BMS)		
Dimension	70*26*51CM		



Inverter

Nominal Voltage	250VAC		
Voltage Range	90-280VAC		
Rated Frequency	50/60Hz		
Frequency Range	40-70Hz		
Rated Current	30A	60A	60A
Max AC Current	60A	120A	120A



AC Input

Max Voltage	500V		
Optimum Voltage	300-400V		
Voltage Range	120V-500VDC		
Max Power	5500W	11000W	11000W



PV Input

Rated Capacity	16360Wh(300Ah)	15360Wh(300Ah)	30720Wh(600Ah)
Nominal Voltage	51.2V		
Discharge Voltage Range	45.2V-58.4V		
Standard Charging Current	100A		
Max Charging Current	200A		
Max Discharging Current	200A		
Depth of Discharge	95%		
Communication Interface	CANRS485		
Cycle Life	>8000, 25±2%, 0.5C, EOL80%		
Working Temperature Range	Charge: 0°C-50°C, Discharge: -10°C-60°C		
Storage Temperature	-10°C-60°C		
Dimension	70*26*51CM		



Battery

## Packing List & Transportation Packing Details

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Item No	Components	CNT	Carton Size	N.W (kg)	G.W (kg)	Unit CBM (m³)	Total CBM (m³)
SCAP-C-512-300(5kW)	Inverter	1	75.8*56.3*31.6CM	24.5	27	0.135	0.135
	Battery	1	76*60*42CM	110.8	128.3	0.192	0.192
SCAP-C-512-300(10kW)	Inverter	1	75.8*56.3*31.6CM	33	35	0.135	0.135
	Battery	1	76*60*42CM	110.8	128.3	0.192	0.192
SCAP-C-512-600(10kW)	Inverter	1	75.8*56.3*31.6CM	33	35	0.135	0.135
	Battery	2	76*60*42CM	110.8	128.3	0.192	0.383