

SPECIFICATION SHEET

STACKMAX ESS 230V 15KWH-30KWH

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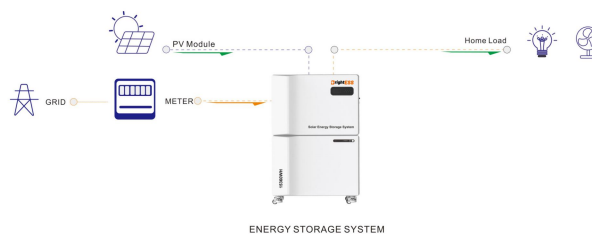
PRODUCT PRESENTATION

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

PRODUCT DIMENSION

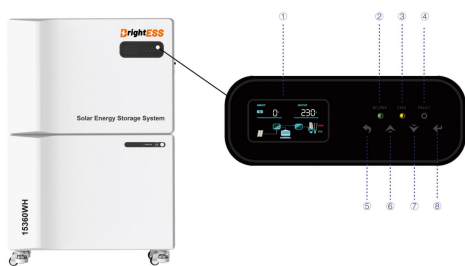
W:26CM



OPERATION FUNCTION

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Inverter LCD Screen

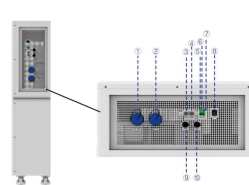


No.	Name	Instruction
①	LCD Screen	Display system operation data
②	Status Indicator	Always on: grid mode, output from AC Flash: battery mode, output from battery or PV
③	Charging Indicator	Always on: battery fully charged Flash: battery charging
④	Fault Indicator	Always on: Inverter failure lash: Inverter 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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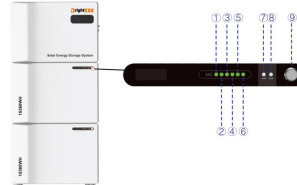
Inverter Interface



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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<div> Inverter</div>	Model	SCAP-C-51.2-300(5.5KW)	SCAP-C-51.2-300(11KW)	SCAP-C-51.2-600(11KW)
	Rated Power	5.5KW	11KW	11KW
	AC Rated Voltage	230VAC		
	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	RS32 (Inverter)RS485 (BMS)		
	Dimension	70*26*51CM		
<div> AC Input</div>	Nominal Voltage	230VAC		
	Voltage Range	90-280VAC		
	Rated Frequency	50/60Hz		
	Frequency Range	40-70Hz		
	Rated Current	30A	60A	60A
	Max AC Current	60A	120A	120A
<div> PV Input</div>	Max Voltage	500V		
	Optimum Voltage	300-400V		
	Voltage Range	120V-500VDC		
	Max Power	5500W	11000W	11000W
<div> Battery</div>	Rated Capacity	15560Wh(300Ah)	15560Wh(300Ah)	30720Wh(600Ah)
	Nominal Voltage	51.2V		
	Discharge Voltage Range	43.2V-58.4V		
	Standard Charging Current	100A		
	Max Charging Current	200A		
	Max Discharging Current	200A		
	Depth of Discharge	95%		
	Communication Interface	CAN/RS485		
	Cycle Life	≥8000, 25±2°C, 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		

Packing List & Transportation Packing Details

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Inverter+1



Storage Battery+1



AC aviation plug



Universal Wheel



MC4 Plug+2

Item No	Components	CNT	Carton Size	N.W (kg)	G.W (kg)	Unit CBM (m³)	Total CBM (m³)
SCAP-C-51.2-300(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-51.2-300(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-51.2-600(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