

SPECIFICATION SHEET

STACKONE ESS 230V 5.5KW 5KWH-30KWH

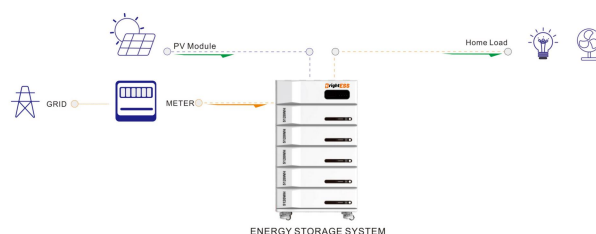
PRODUCT PRESENTATION

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.



1

WORKING DIAGRAM

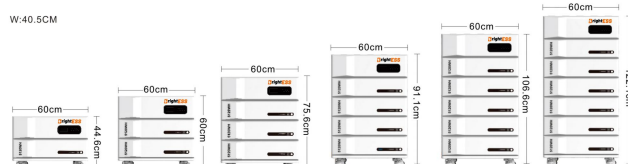


2

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.

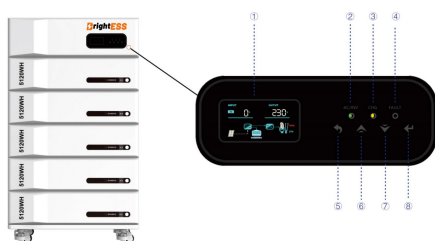
PRODUCT DIMENSION



OPERATION FUNCTION

3

Inverter LCD Screen

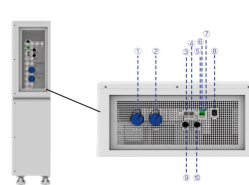


No.	Name	Instruction
①	LCD Screen	Display system operation data
②	Status Indicator	Always on: grid mode,output from AC Flash: battery mode,output from battery or PV
③	Charging Indicator	Always on: battery fully charged Flash: battery charging
④	Fault Indicator	Always on: Inverter failure lash: Inverter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

4

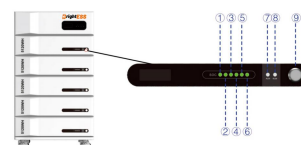
Inverter Interface



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

5

Inverter	Model	SCAP-A-51.2-100	SCAP-A-51.2-200	SCAP-A-51.2-300	SCAP-A-51.2-400	SCAP-A-51.2-500	SCAP-A-51.2-600
	Rated Power	5KW					
	AC Rated Voltage	230VAC					
	Rated Frequency	50Hz					
	Efficiency	>94%					
	Transfer Time	10ms					
	Waveform	Pure sinusoidal wave					
	Battery Overvoltage	58.4V					
	Battery Undervoltage Alarm	45V					
	Constant Voltage Charge	58.4V					
AC Input	Float Voltage	56V					
	Max Charging Current	100A					
	Communication Interface	RS232 (Inverter)/RS485 (BMS)					
	Dimension	60*40.5*18cm					
	Nominal Voltage	230VAC					
PV Input	Voltage Range	90-280VAC					
	Rated Frequency	50Hz					
	Frequency Range	40-70Hz					
	Rated Current	30A					
	Max AC Current	60A					
Battery	Max Voltage	500V					
	Optimum Voltage	500-400V					
	Voltage Range	120V-500VDC					
	Max Power	5500W					
	Rated Capacity	5120Wh (100Ah)	10240Wh (200Ah)	15360Wh (300Ah)	20480Wh (400Ah)	25600Wh (500Ah)	30720Wh (600Ah)
	Nominal Voltage	51.2V					
	Discharge Voltage Range	43.2V-58.4V					
	Standard Charging Current	50A					
	Max Charging Current	100A					
	Max Discharging Current	100A					
Battery	Depth of Discharge	90%					
	Communication Interface	CAN/RS485					
	Cycle Life	≥6000, 25±2°C, 0.5C, EOL80%					
	Working Temperature Range	Charge: 0°C-50°C; Discharge: -10°C-60°C					
	Storage Temperature	-20°C-60°C					
	Dimension	60*40.5*19.5cm					

Packing List & Transportation Packing Details

6



Item No	Components	CNT	Carton Size	N.W (kg)	G.W (kg)	Unit CBM (m³)	Total CBM (m³)
SCAP-A-51.2-100	Inverter	1	65*45*24CM	28	29.5	0.070	0.070
	Battery	1	65*45*24CM	44.7	46.3	0.070	0.070
	Accessories	1	61*12*40CM	10.1	10.7	0.029	0.029
SCAP-A-51.2-200	Inverter	1	65*45*24CM	28	29.5	0.070	0.070
	Battery	2	65*45*24CM	44.7	46.3	0.070	0.140
	Accessories	1	61*12*40CM	10.1	10.7	0.029	0.029
SCAP-A-51.2-300	Inverter	1	65*45*24CM	28	29.5	0.070	0.070
	Battery	3	65*45*24CM	44.7	46.3	0.070	0.211
	Accessories	1	61*12*40CM	10.1	10.7	0.029	0.029
SCAP-A-51.2-400	Inverter	1	65*45*24CM	28	29.5	0.070	0.070
	Battery	4	65*45*24CM	44.7	46.3	0.070	0.281
	Accessories	1	61*12*40CM	10.1	10.7	0.029	0.029
SCAP-A-51.2-500	Inverter	1	65*45*24CM	28	29.5	0.070	0.070
	Battery	5	65*45*24CM	44.7	46.3	0.070	0.351
	Accessories	1	61*12*40CM	10.1	10.7	0.029	0.029
SCAP-A-51.2-600	Inverter	1	65*45*24CM	28	29.5	0.070	0.0700
	Battery	6	65*45*24CM	44.7	46.3	0.070	0.421
	Accessories	1	61*12*40CM	10.1	10.7	0.029	0.029