

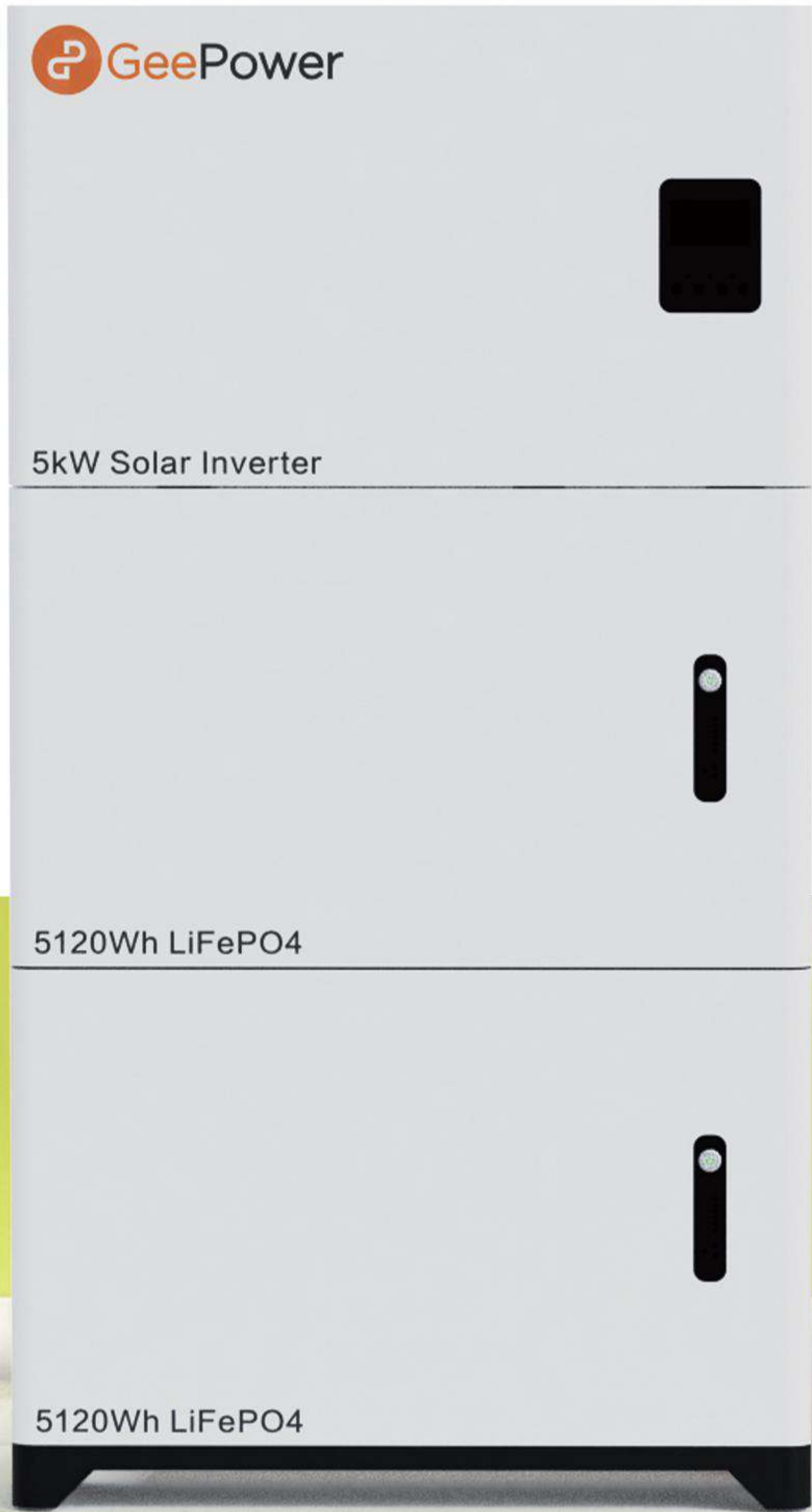
SPECIFICATION SHEET

APOLLO INVERTER WITH ESS B SERIES

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.

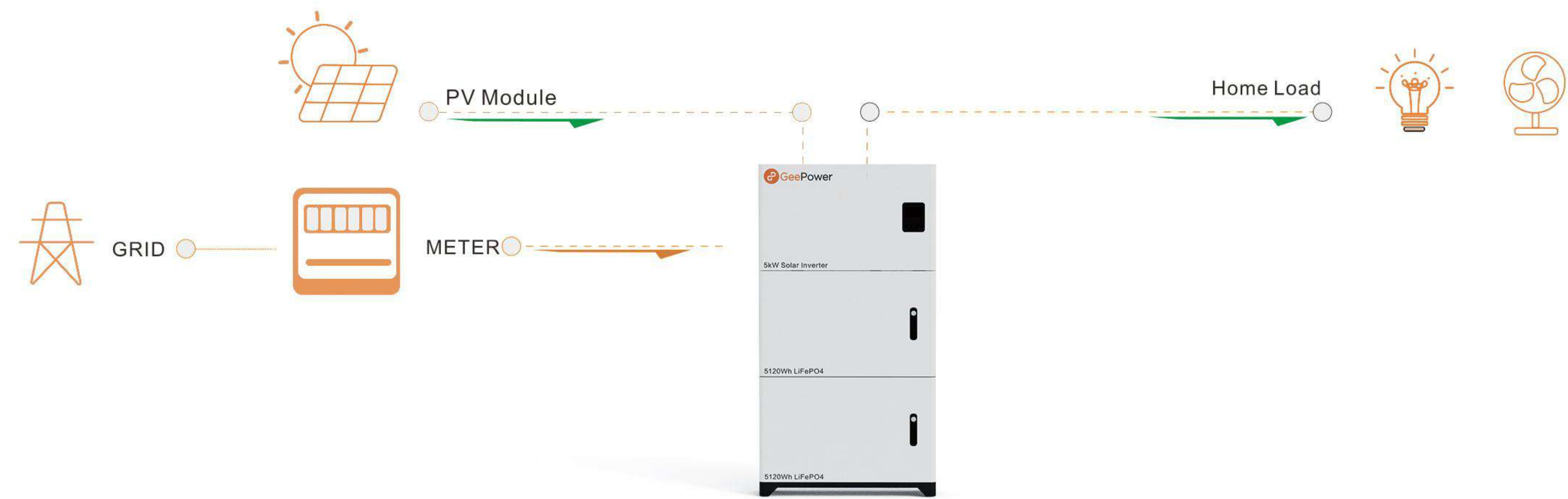
We use brand new A-grade LiFePo4 battery, equipped with an intelligent battery management system for charging and discharging cycles. The inverter converts DC energy to AC energy to meet the requirements for household electricity. Normally, this product is installed in combination with PV system to provide 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

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ENERGY STORAGE SYSTEM

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

UNIT: mm

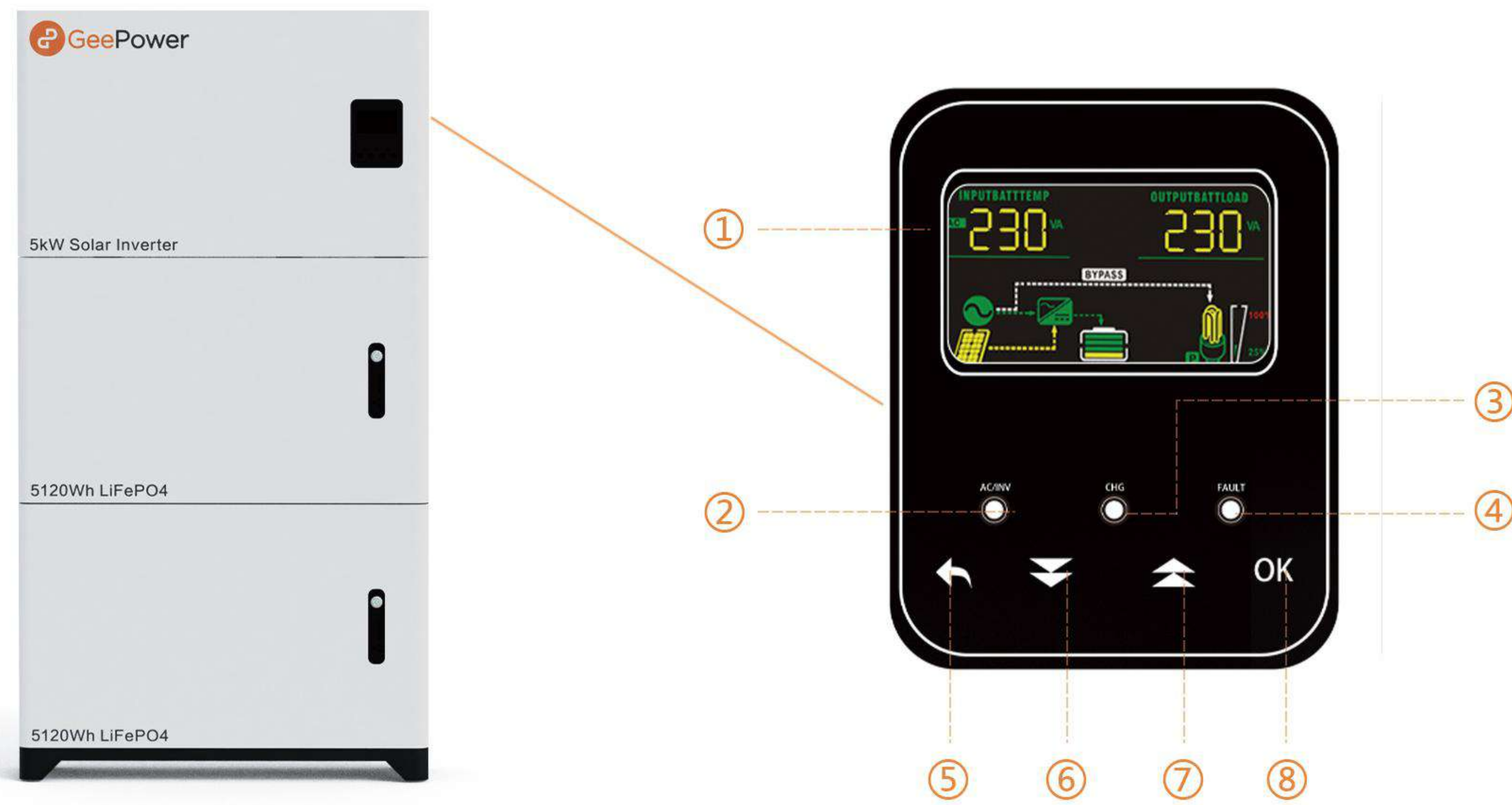
T-B: w-17.8 cm



OPERATION FUNCTION

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Inverter LCD Screen

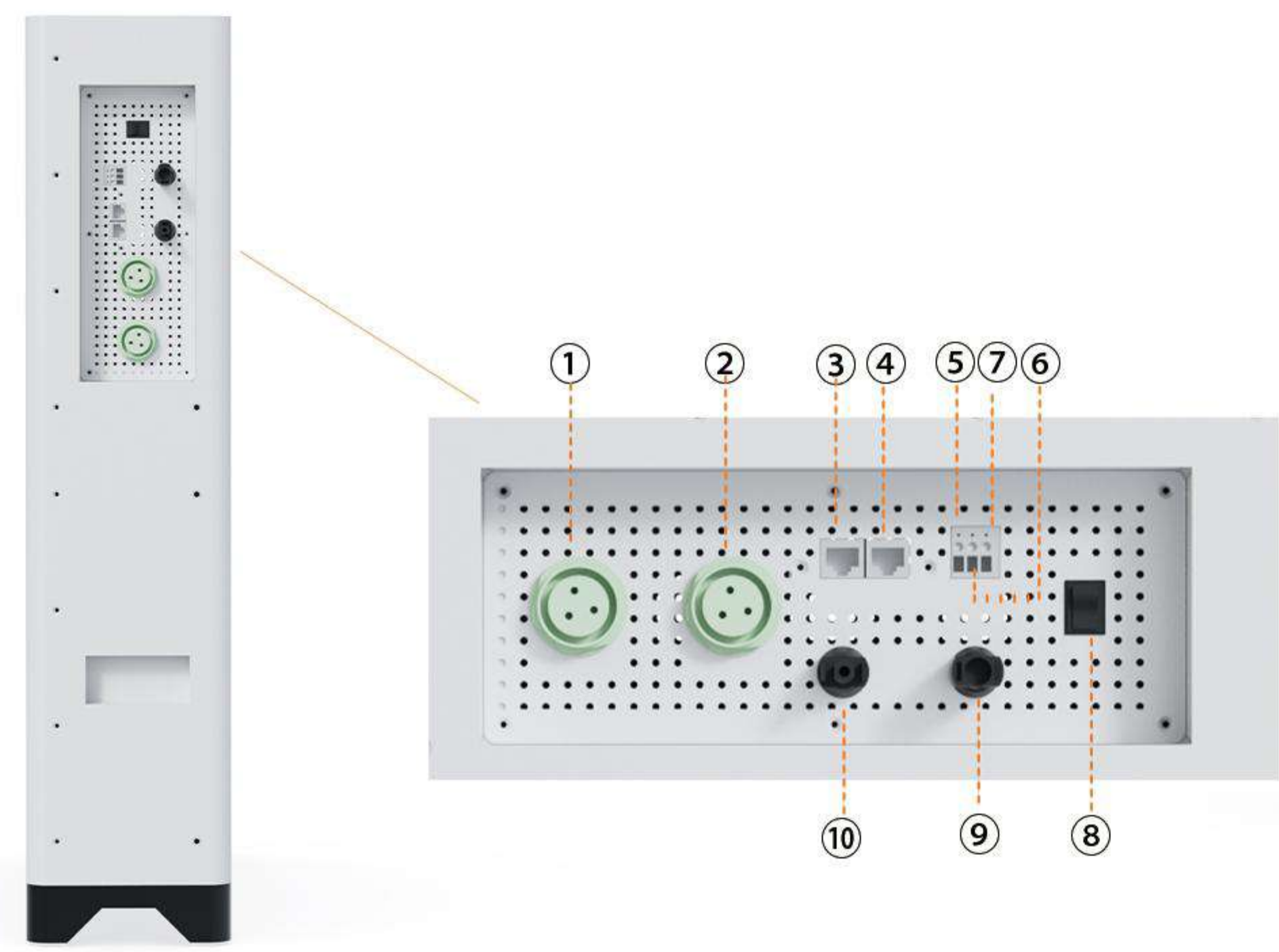


No.	Name	
①	LCD Screen	Display system operation data
②	Status Indicator	Always on: grid mode,output from AC Flash: battery mode,output from battery or PV
③	Charging Indicator	Always on: battery fully charged Flash: battery charging
④	Fault indicator	Always on: Inverter failure lash: Inverter warning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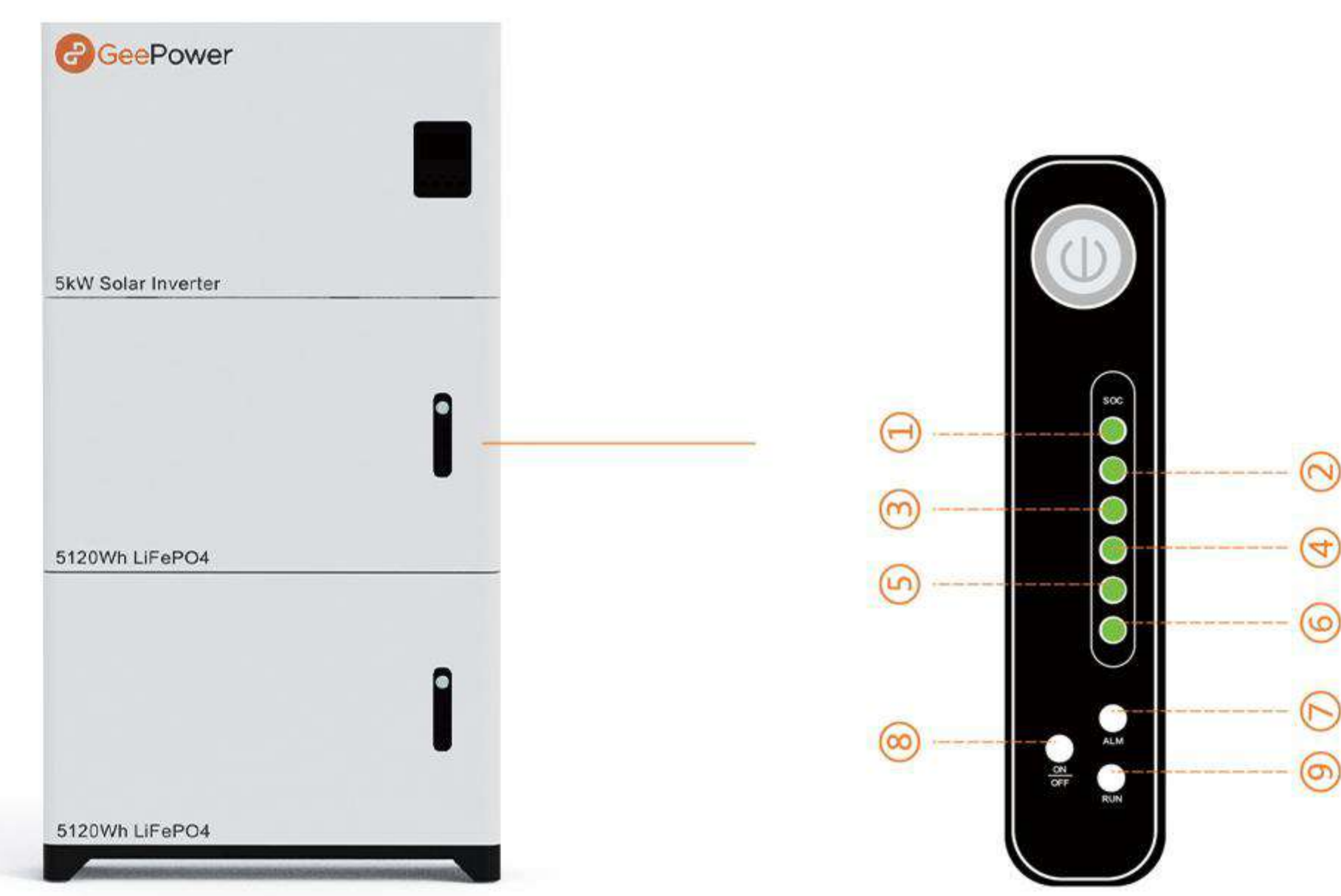
Inverter Interface



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 ON/OFF light
- ⑨ Running light

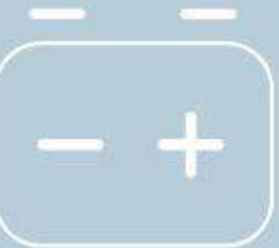
PRODUCT PARAMETER

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 Inverter	Model	GPTE-B 51.2-100	GPTE-B 51.2-200	GPTE-B 51.2-300	GPTE-B 51.2-400
	Rated Power	5kW			
	AC Rated Voltage	230VAC			
	Rated Frequency	50/60Hz			
	Efficiency	>95%			
	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	RS485			
	Dimension	63*37.5*17.8cm			

 PV Input	Max.input current	18A+18A			
	Max Voltage of Open Circuit	550Vdc+550Vdc			
	Voltage Range	120~480Vdc			
	Max Power	4500W+4500W			

 AC Input	Nominal Voltage	230VAC			
	Rated Frequency	50Hz			
	Rated Current	27A			

 Battery	Rated Capacity	5120Wh(100Ah)	10240Wh(200Ah)	15360Wh(300Ah)	20480Wh(400Ah)
	Nominal Voltage	51.2V			
	Discharge Voltage Range	43.2V-58.4V			
	Standard Charing Current	50A			
	Max Charging Current	100A			
	Max Discharging Current	100A			
	Depth of Discharge	90%			
	Communication Interface	CAN/RS485			
	Cycle Life	≥6000, 25±2℃, 0.5C, EOL80%			
	Working Temperature Range	Charge: 0℃ -50℃; Discharge: -10℃ -60℃			
	Storage Temperature	-20℃ -60℃			
	Dimension	63*37.5*17.8cm			

Packing List & Transportation
Packing Details

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 Inverter*1		 Storage Battery*1	 AC aviation plug	
 Pallet*1		 MC4 Plug*2		

Name	Item No	Components	CNT	Carton	N.W (kg)	G.W (kg)	Unit CBM (m³)	Total CBM (m³)
TERRA B Series 5KWH	GPTE-B 51.2-100	Inverter	1	65*43*24CM	26.5	28	0.067	0.067
		Battery	1	65*44*24CM	44.2	45.7	0.067	0.067
		Accessories	1	61*9*18CM	4.3	4.6	0.010	0.010
TERRA B Series 10KWH	GPTE-B 51.2-200	Inverter	1	65*43*24CM	26.5	28	0.067	0.067
		Battery	2	65*43*24CM	44.2	45.7	0.067	0.134
		Accessories	1	61*9*18CM	4.3	4.6	0.010	0.010
TERRA B Series 15KWH	GPTE-B 51.2-300	Inverter	1	65*43*24CM	26.5	28	0.067	0.067
		Battery	3	65*43*24CM	44.2	45.7	0.067	0.201
		Accessories	1	61*9*18CM	4.3	4.6	0.010	0.010
TERRA B Series 20KWH	GPTE-B 51.2-400	Inverter	1	65*43*24CM	26.5	28	0.067	0.067
		Battery	4	65*43*24CM	44.2	45.7	0.067	0.268
		Accessories	1	61*9*18CM	4.3	4.6	0.010	0.010