



FUJIAN HUAXU NEW ENERGY INVESTMENT GROUP CO., LTD.

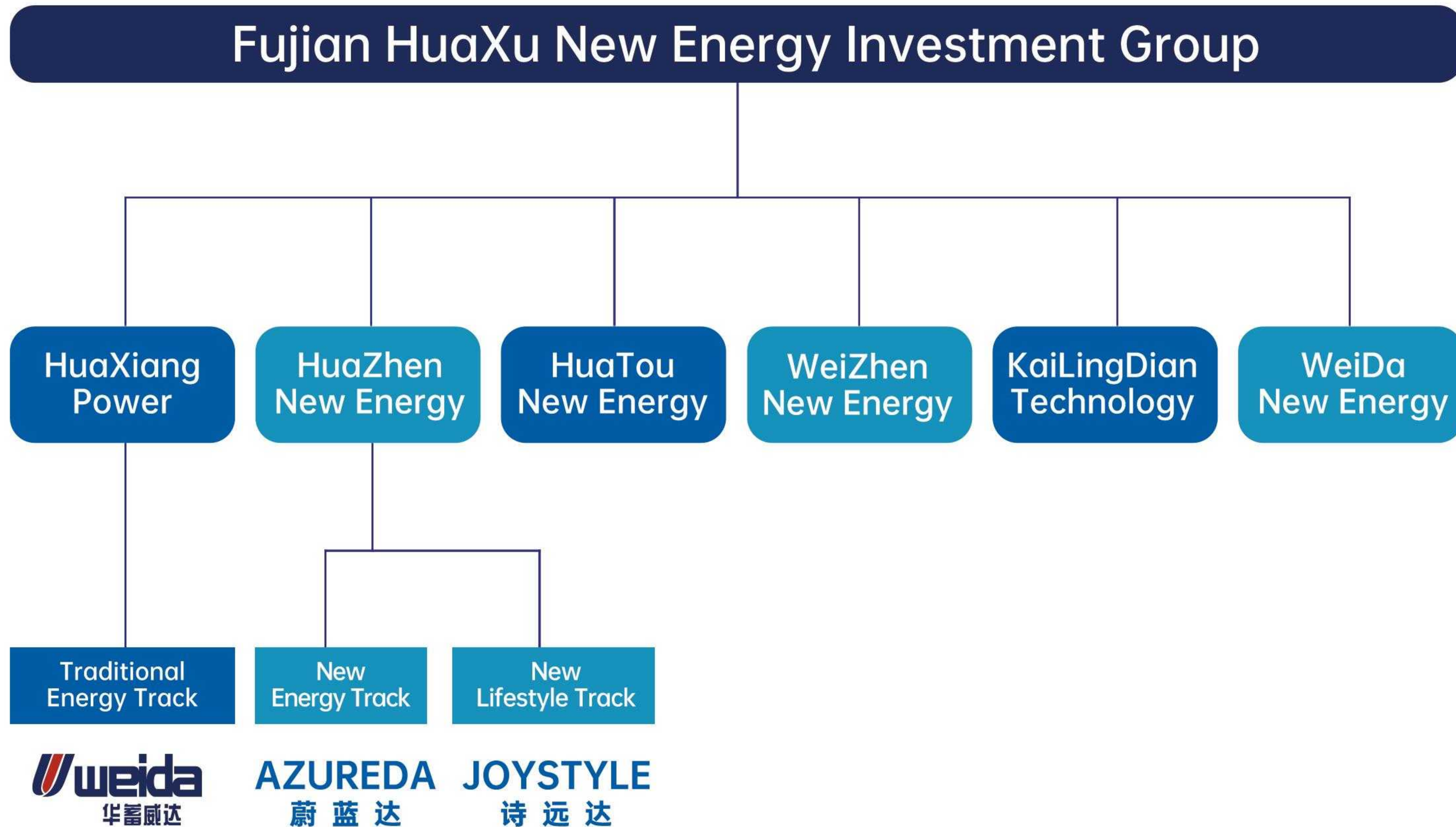
Since 1986

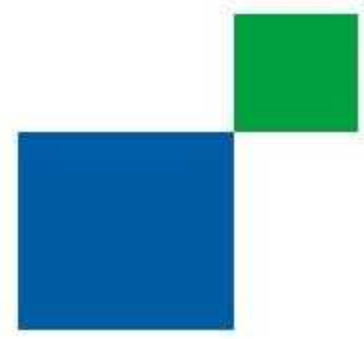
Group headquarters base

Covering an area of 106 thousand square meters







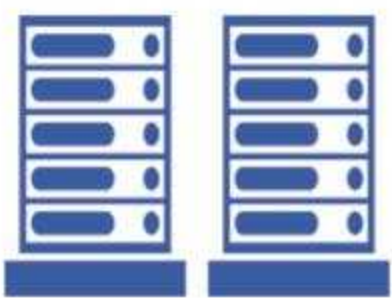


▼
Group
Profile





NEW ENERGY STORAGE SYSTEM

 <p>Container storage system</p>	 <p>Lithium battery energy storage cabinet</p>	 <p>Stacked home energy storage system</p>	 <p>RACK mounted home energy storage unit</p>	 <p>Wall-mounted home energy storage unit</p>
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<h2>Application Fields</h2>	 <p>Industrial and commercial demand management peak cutting and valley filling</p>	 <p>User side backup power supply</p>	 <p>ESS</p> <p>Wind and photovoltaic energy storage adjust peak and frequency</p>	 <p>Microgrid system</p>
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NEW ENERGY BATTERY



Motorcycle battery



Intelligent power forklift battery



Solar street lamp battery



Motorcycle starting battery



12V UPS battery

Application Fields



COMMUNICATION EQUIPMENT



MARINE EQUIPMENT



MEDICAL EQUIPMENT



ELECTRIC TOOL



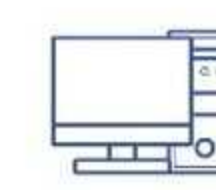
ENGINE START



SOLAR ENERGY



POWER STATION



COMPUTER BACKUP POWER

◇ CONTROL SYSTEM

◇ NUCLEAR POWER PLANT

◇ TELECOM SYSTEM

◇ ELECTRIC TOYS

◇ PEAK LOAD COMPENSATION ENERGY STORAGE DEVICE

◇ FIRE&SECURITY ALARM SYSTEM

◇ ELECTRIC POWER SYSTEM

◇ BACKUP & STANDBY POWER

◇ EMERGENCY LIGHTING SYSTEM

◇ GENERATING STATION

◇ CABLE TV

◇ WIND SYSTEM

◇ UNINTERRUPTED POWER SUPPLY [UPS]



NEW ENERGY BATTERY



Small sealed series



Large sealed series



Dry load series



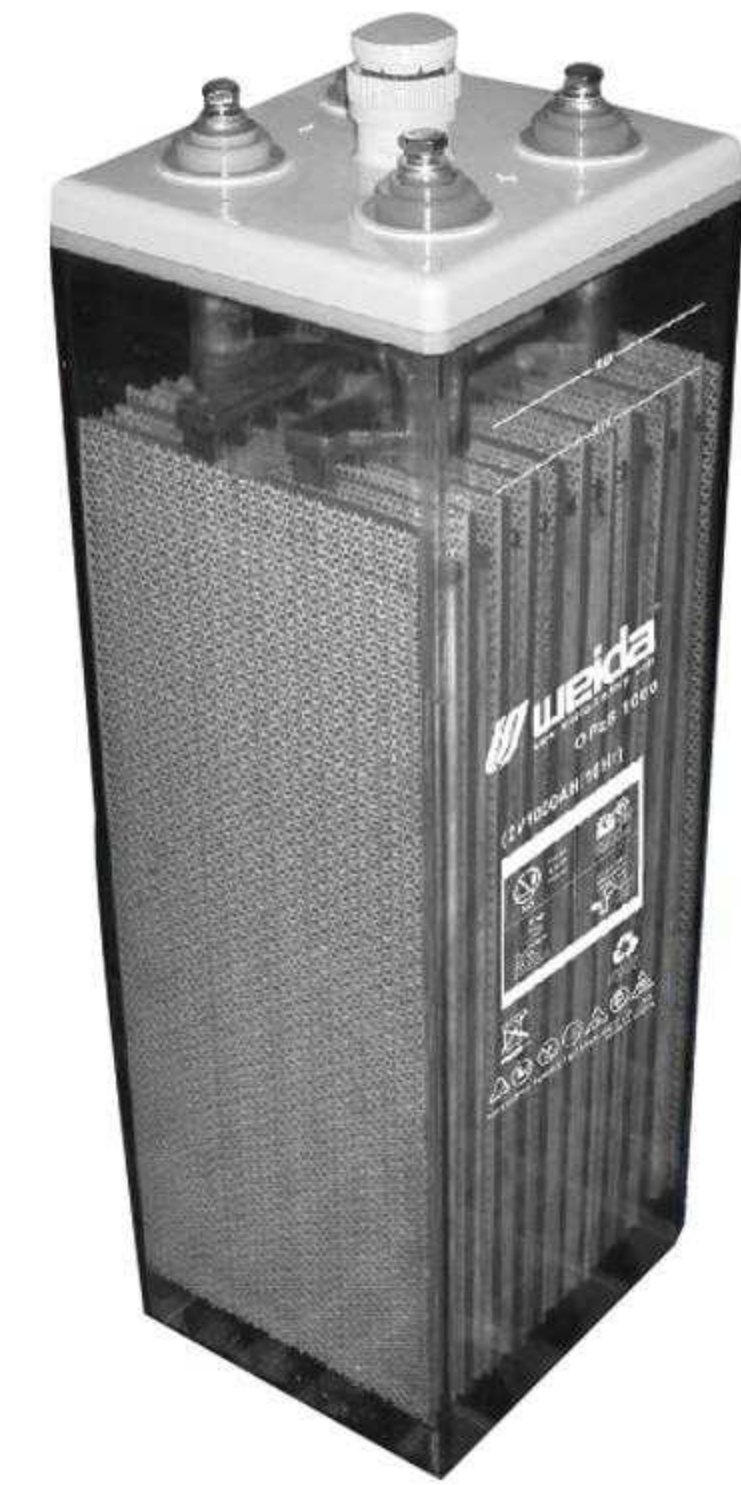
EV series



Motorcycle series



FT series



OPZS series



OPZV series

HZF-51.2-100-SF

LITHIUM IRON PHOSPHATE BATTERY STACKED ENERGY STORAGE SYSTEM



Smart

- ★Independent high-performance BMS for each battery module unit.

Safety

- ★The system adopts high-quality lithium iron phosphate power core, which brings better product performance and reliability.
- ★Professional pack R&D design and production team.

Intelligent Management

- ★Each battery module is equipped with an intelligent BMS to effectively manage the normal and stable operation of the module.
- ★Compared with conventional modules, it can meet the requirements of large storage capacity and increase the cycle life.

Specificities

- ★ Battery Module: Modular stacked design, choose the quantity of modules according to the needs of rapid capacity expansion, easy installation.
- ★ System Base: Removable base. Equipped with heavy-duty universal brake wheels and directional adjustment wheels. Flexibility of movement. The universal brake wheel brake can be fixed in time, and the directional adjusting wheel adjusting screw can be better positioned and fixed.
- ★ Inverter: This equipment integrates the functions of inverter, MPPT solar charger and battery charger into one multi-function. With a wide PV input range, the solar inverter control unit has the advantages of high power density, small size, simple operation, high efficiency and low no-load loss.

Appliance

- ★ Widely used in residential energy storage systems, stores, offices and many other applications.

Product Parameters

Battery Module	HZF-51.2-100-SF
Cell Type	LiFePO4
Energy Rating	5.12kWh
Rated Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage Range	42V~58.4V
Maximum Continuous Charging Current	50A
Maximum Continuous Discharge Current	100A
Net Weight	48.5Kg
Overall Dimensions [L*W*H] (mm)	680*460*175
Operating Temperature Range	Charge:0~45°C; Discharge:-20~50°C
Cycle Life [1]	5000
Communication Method	CAN/RS485
Warranty	5 Years

System Base	HZF-51.2-100-DZ
Net Weight	11.8Kg
Overall Dimensions [L*W*H] (mm)	680*460*150

Inverter (optional)		HZGA6248MH
Inverter Output	Rated Power	6200W
	Instantaneous Power	12400VA
	Input Voltage	220/230/240VAC±5%
	Frequency Range	50Hz/60Hz
AC Input	Input Voltage	220/230/240VAC±5%
	Selectable Voltage Range	90~280VAC±3V(Normal Mode) / 170~280VAC±3V(UPS Mode)
	frequency Range	50Hz/60Hz(Auto sensing)
Solar Charging AC Charging	Maximum PV Open Circuit Voltage	500VDC
	Charging Algorithm	4-Segment (Lithium Battery)
	Maximum PV Array Power	6200W
	PV Array MPPT Voltage Range	60-500VDC
	Maximum Solar Charging Current	120A
	Maximum AC Charging Current	100A
	Maximum Charging Current	120A
Net Weight		22.8Kg
Overall Dimensions [L*W*H] (mm)		680*460*174.5

[1] Test Condition: 0.2C Charge/Discharge, @25°C, 60%DOD

HZF-51.2-200-SF

LITHIUM IRON PHOSPHATE BATTERY STACKED ENERGY STORAGE SYSTEM



Smart

- ★Independent high-performance BMS for each battery module unit.

Safety

- ★The system adopts high-quality lithium iron phosphate power core, which brings better product performance and reliability.
- ★Professional pack R&D design and production team.

Intelligent Management

- ★Each battery module is equipped with an intelligent BMS to effectively manage the normal and stable operation of the module.
- ★Compared with conventional modules, it can meet the requirements of large storage capacity and increase the cycle life.

Specificities

- ★ Battery Module: Modular stacked design, choose the quantity of modules according to the needs of rapid capacity expansion, easy installation.
- ★ System Base: Removable base. Equipped with heavy-duty universal brake wheels and directional adjustment wheels. Flexibility of movement. The universal brake wheel brake can be fixed in time, and the directional adjusting wheel adjusting screw can be better positioned and fixed.
- ★ Inverter: This equipment integrates the functions of inverter, MPPT solar charger and battery charger into one multi-function. With a wide PV input range, the solar inverter control unit has the advantages of high power density, simple operation, high efficiency and low no-load loss.

Appliance

- ★ Widely used in residential energy storage systems, stores, offices and many other applications.

Product Parameters

Battery Module	HZF-51.2-200-SF
Cell Type	LiFePO4
Energy Rating	11kWh
Rated Capacity	200Ah
Nominal Voltage	51.2V
Operating Voltage Range	42V~58.4V
Maximum Continuous Charging Current	100A
Maximum Continuous Discharge Current	200A
Net Weight	96Kg
Overall Dimensions [L*W*H] (mm)	780*640*174.5
Operating Temperature Range	Charge:0~45°C; Charge:-20~50°C
Cycle Life [1]	5000
Communication Method	CAN/RS485
Warranty	5 Years

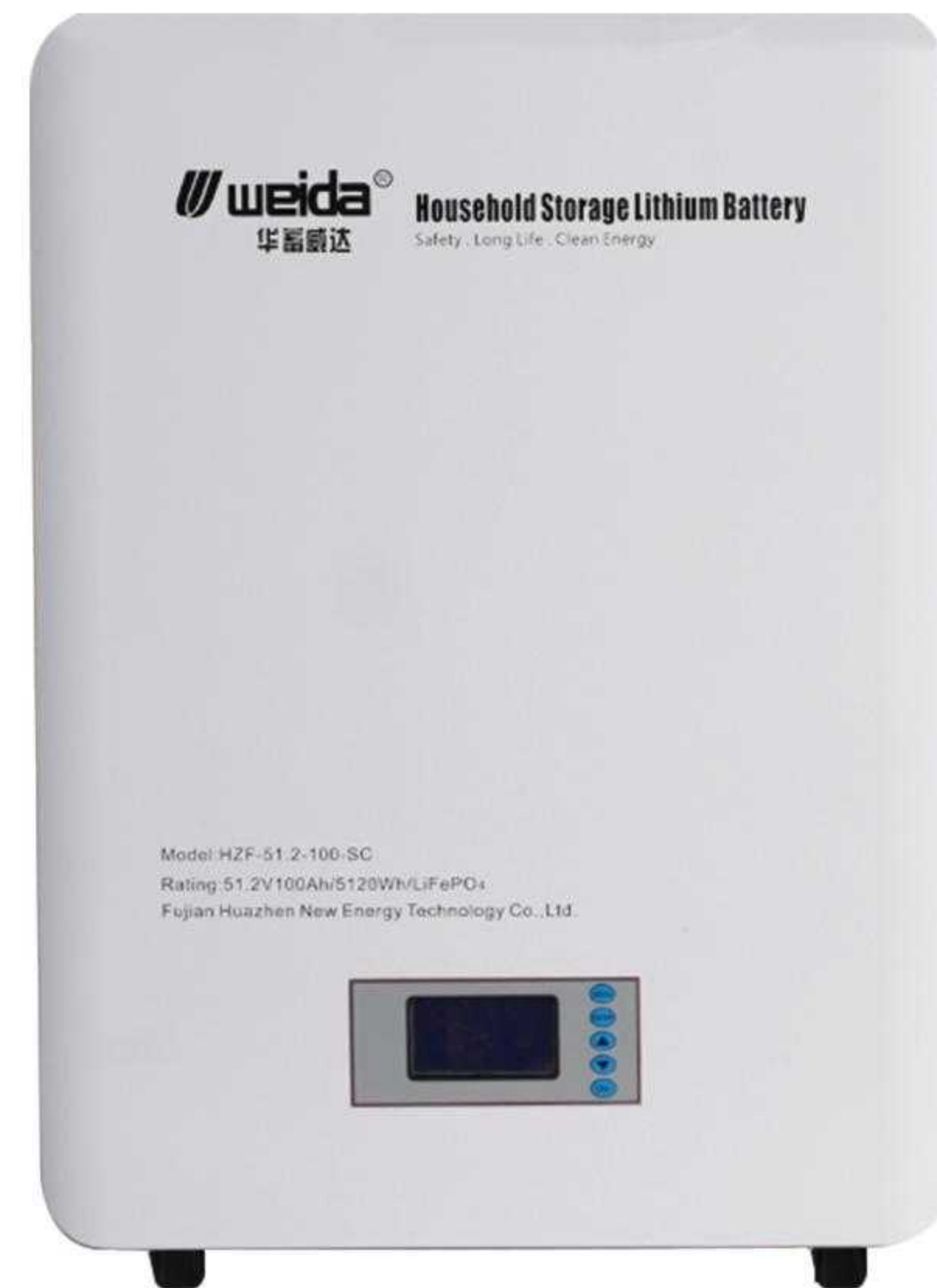
System Base	HZF-51.2-200-DZ
Net Weight	12.6Kg
Overall Dimensions [L*W*H] (mm)	780*640*51.5

Inverter (optional)	HZGA11048MH	
Inverter Output	Rated Power	11kW
	Instantaneous Power	22KVA
	Input Voltage	220/230/240VAC±5%
	Frequency Range	50Hz/60Hz
AC Input	Input Voltage	220/230/240VAC±5%
	Selectable Voltage Range	90~280VAC±3V(APL Mode) / 170~280VAC±3V(UPS Mode)
	frequency Range	50Hz/60Hz(Auto sensing)
Solar Charging AC Charging	Maximum PV Open Circuit Voltage	500VDC
	Charging Algorithm	4-Segment (Lithium Battery)
	Maximum PV Array Power	2*5500W
	PV Array MPPT Voltage Range	90-500VDC
	Maximum Solar Charging Current	150A
	Maximum AC Charging Current	150A
	Maximum Charging Current	150A
	Net Weight	30.8Kg
	Overall Dimensions [L*W*H] (mm)	780*640*174.5

[1] Test Condition: 0.2C Charge/Discharge, @25°C, 60%DOD

HZF-51.2-100-SC

LITHIUM IRON PHOSPHATE BATTERY HOME ENERGY STORAGE SYSTEM



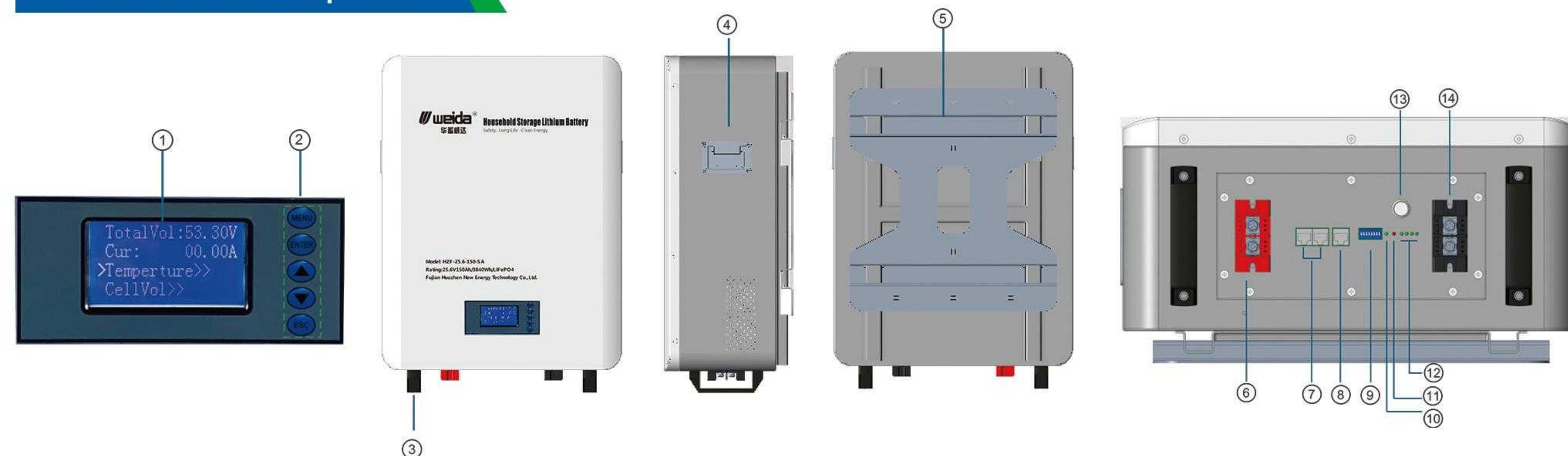
Products

The battery system mainly provides power storage for the family residential solar system, while the battery system can optimize the use of power to ensure the effective operation of the whole home energy storage system. Its comprehensive LCD information display and easy-to-operate buttons facilitate user management of the battery system.

Product Features

- ★The system adopts high-quality lithium iron phosphate power core, bringing better product performance and reliability.
- ★Each battery module unit is equipped with an independent high-performance BMS system for scientific management of the battery cells.
- ★LCD screen displays various battery statuses.
- ★Battery module units support parallel connection for expansion.
- ★Supports multiple inverter communication matches.
- ★Battery module adopts wall-mounted design, easy to install.
- ★Widely used in home, store, office and other applications.

Functional Description



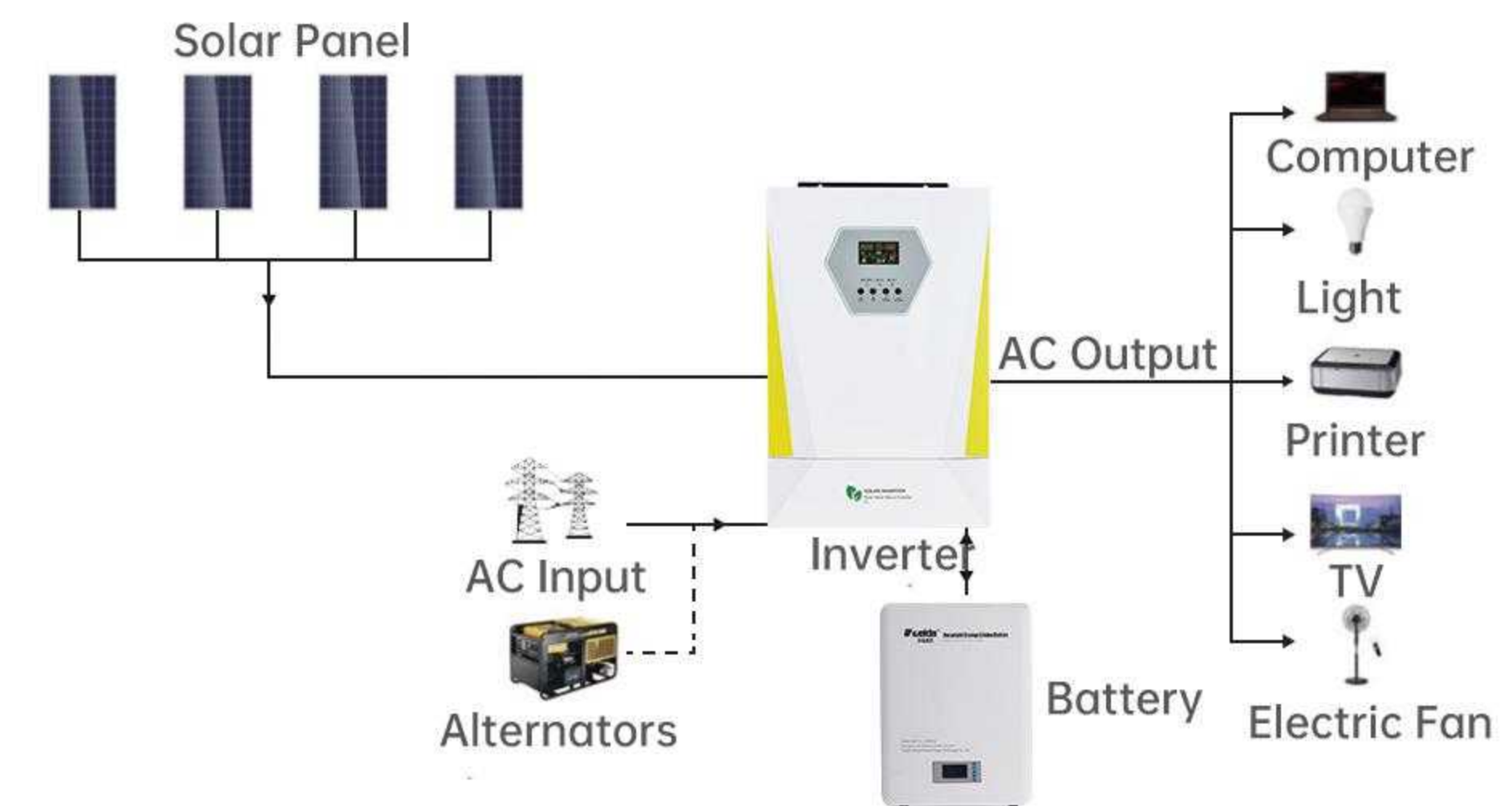
1. Lcd Liquid Crystal Display
2. Function Buttons
3. Battery Module Bottom Handle
4. Battery Module Side Handle
5. Wall Mounting Bracket
6. Battery Positive
7. Rs485 Communication Interface
8. CAN Communication Interface
9. Battery Module Address Dial
10. Operation Status Indicator
11. Alarm Indicator
12. Battery Indicator
13. Power Switch
14. Battery Negative

Product Parameters

Product Model	HZF -51.2-100-SC
Battery Type	LiFePO4
Nominal Voltage	51.2V
Energy Rating	5.12KWh
Rated Capacity	100Ah
Charging Voltage	58.4V
Discharge Cutoff Voltage	42V
Maximum Continuous Charging Current	50A
Maximum Continuous Discharge Current	100A
Weight	about 53Kg
Size (mm)[W*T*H]	W450*T212*H633
Charging Temperature Range	0~45°C
Discharge Temperature Range	-20~60°C
Cycle Life [1]	5000
IP Rating	IP20
Communication Method	CAN/RS 485
Warranty	5 Years

[1]Test Condition: 0.2C Charge/Discharge, @25°C, 60%DOD

Photovoltaic System Connection



HZF-51.2-100-SB

LITHIUM IRON PHOSPHATE BATTERY HOME ENERGY STORAGE SYSTEM

Product

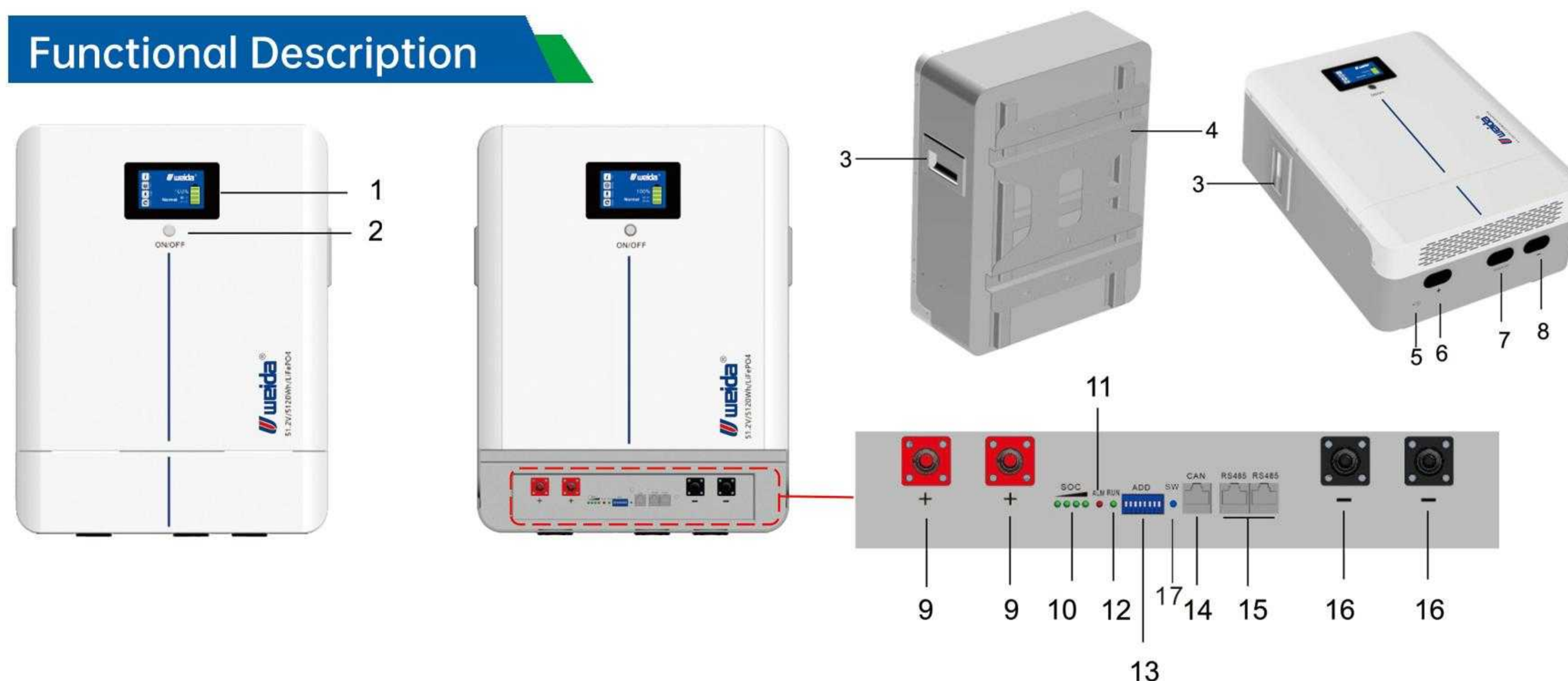
The battery system mainly provides power storage for the family residential solar system, while the battery system can optimize the use of power to ensure the effective operation of the whole home energy storage system. Its comprehensive touchscreen information display and easy-to-operate touchscreen facilitates user management of the battery system.



Product Features

- ★The system adopts high-quality lithium iron phosphate power core, bringing better product performance and reliability.
- ★Each battery module unit is equipped with an independent high-performance BMS system for scientific management of the battery cells.
- ★Touch screen displays various battery statuses.
- ★Battery module units support parallel connection for expansion.
- ★Supports multiple inverter communication matches.
- ★Battery module adopts wall-mounted design, easy to install.
- ★Widely used in home, store, office and other applications.

Functional Description

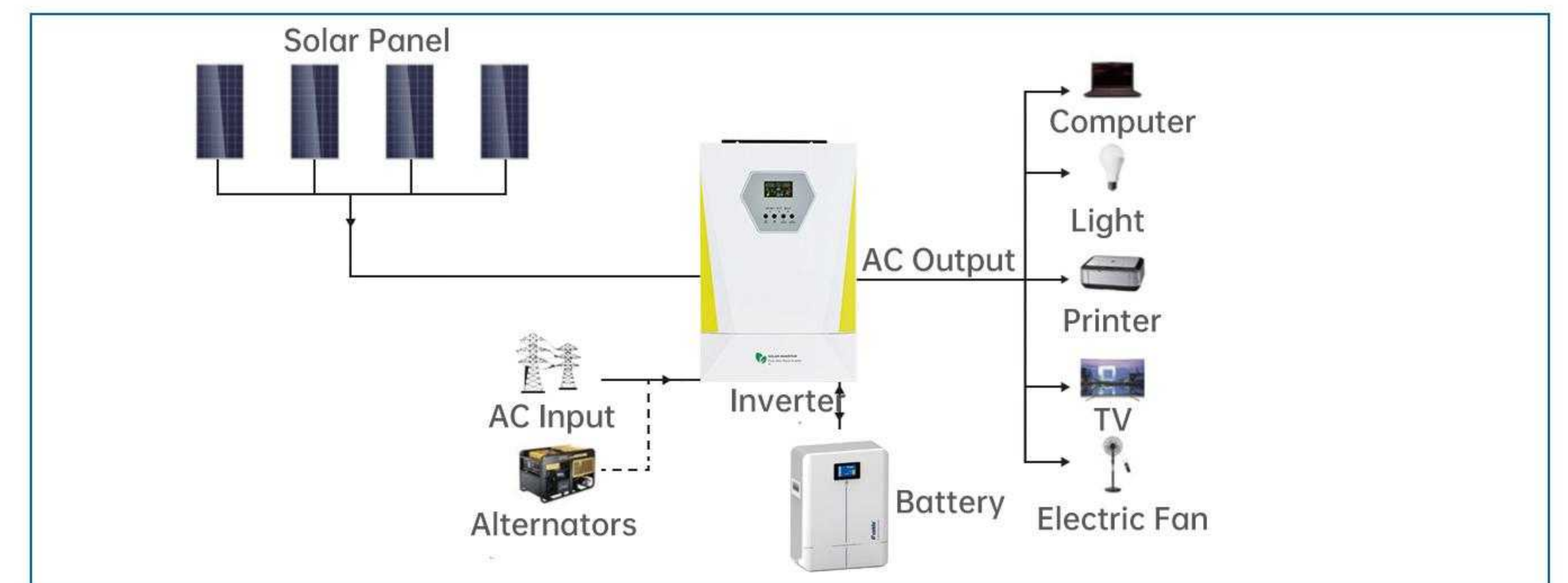


Product Parameters

Product Model	HZF-51.2-100-SB
Battery Type	LiFePO4
Nominal Voltage	51.2V
Energy Rating	5.12KWh
Rated Capacity	100Ah
Charging Voltage	58.4V
Discharge Cutoff Voltage	42V
Maximum Continuous Charging Current	50A
Maximum Continuous Discharge Current	100A
Weight	about 53Kg
Size (mm) [W*T*H]	W450*T212*H600
Charging Temperature Range	0~45°C
Discharge Temperature Range	-20~50°C
Cycle Life [1]	5000
IP Rating	IP20
Communication Method	CAN/RS 485
Warranty	5 Years

[1]Test Condition: 0.2C Charge/Discharge, @25°C, 60%DOD

Photovoltaic System Connection



No	Instruction	No	Instruction
1	Touchscreens	10	SOC Indicator
2	Power On/Off Key	11	Warning Indicator
3	Grips	12	Operation Indicator Light
4	Wall Mounting Bracket	13	Address Dip Switch
5	Grounding Wire	14	RJ45 CAN Communication
6	Battery Input/Output+	15	RJ45 RS485 Communication*2
7	Communication Port	16	Battery Negative
8	Battery Input/Output-	17	Reset Switch
9	Battery Positive		

HZF-51.2-100-SH

LITHIUM IRON PHOSPHATE BATTERY WALL MOUNTED ENERGY STORAGE MODULE

Product

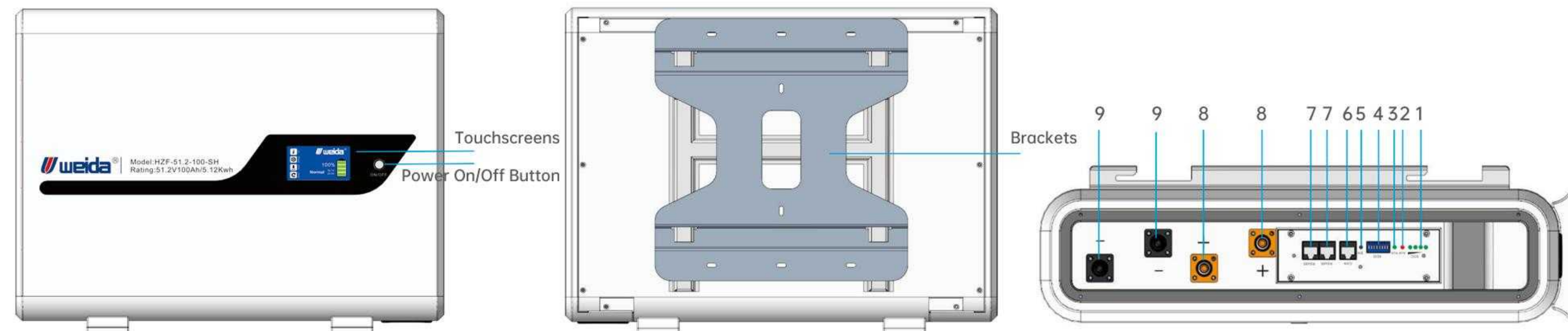
The battery system mainly provides power storage for the family residential solar system, while the battery system can optimize the use of power to ensure the effective operation of the whole home energy storage system. Its comprehensive touchscreen information display and easy-to-operate touchscreen facilitates user management of the battery system.



Product Features

- ★The system adopts high-quality lithium iron phosphate power core, bringing better product performance and reliability.
- ★Each battery module unit is equipped with an independent high-performance BMS system for scientific management of the battery cells.
- ★Touch screen displays various battery statuses.
- ★Battery module units support parallel connection for expansion.
- ★Supports multiple inverter communication matches.
- ★Battery modules can be wall-mounted or floor-mounted..
- ★Widely used in home, store, office and other applications.

Functional Description

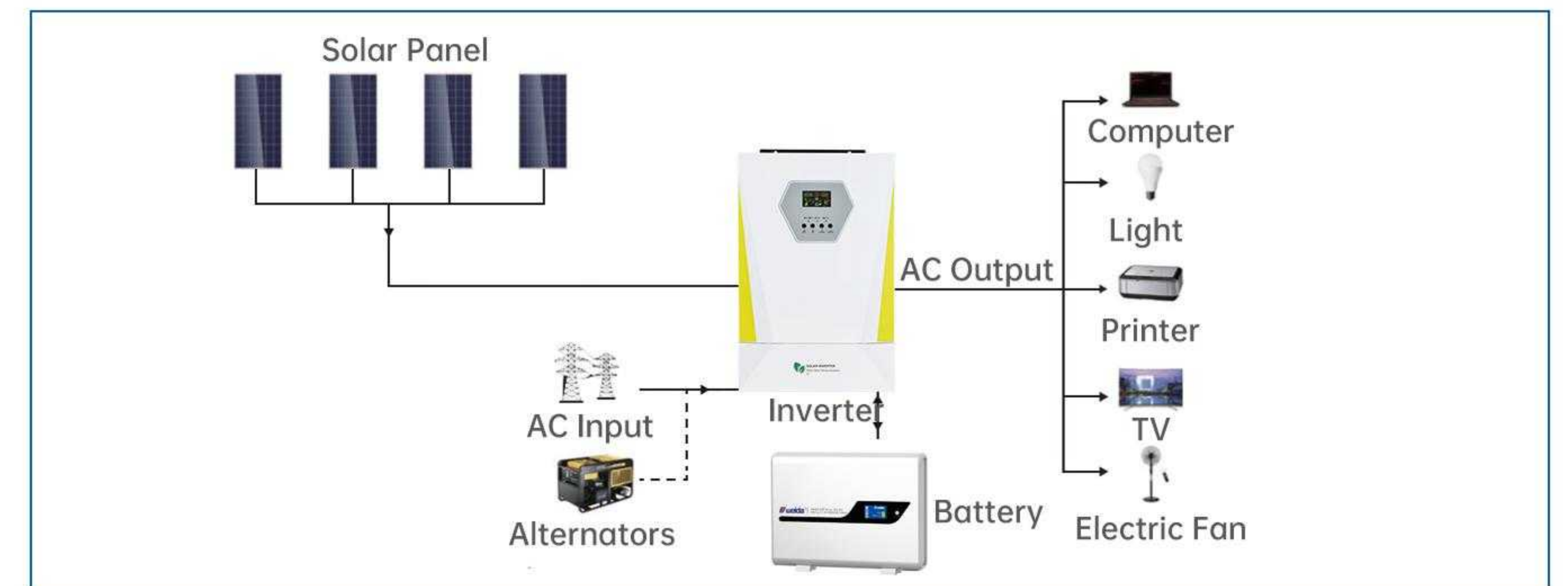


Product Parameters

Product Model	HZF-51.2-100-SH
Battery Type	LiFePO4
Nominal Voltage	51.2V
Energy Rating	5.12KWh
Rated Capacity	100Ah
Charging Voltage	58.4V
Discharge Cutoff Voltage	42V
Maximum Continuous Charging Current	50A
Maximum Continuous Discharge Current	100A
Weight	About 51.4Kg
Size (mm)[W*T*H]	W666*T125*H520
Charging Temperature Range	0~45°C
Discharge Temperature Range	-20~50°C
Cycle Life [1]	5000
IP Rating	IP20
Communication Method	CAN/RS 485
Warranty	5 Years

[1]Test Condition: 0.2C Charge/Discharge, @25°C, 60%DOD

Photovoltaic System Connection



No.	Project Name	Clarification
1	SOC Indicator	Display Battery Capacity Status
2	Warning Indicator	Displays the fault status, indicated by the red light when there is a fault, the red light will come on will come on
3	Operation Indicator Light	Displays the operating status of the device
4	Address Dip Switch	Setting the battery address
5	Sleep/Wake	Reset Switch
6	CAN Communication	CAN Communication Interface
7	RJ45 RS485 Communication*2	RS-485 Communication Interface
8	Battery Input/Output	Power Connectors +
9	Battery Input/Output	Power Connectors -

HZF51.2V Series

FLOOR STANDING HOME ENERGY STORAGE SYSTEMS



Product

The battery system mainly provides power storage for the family residential solar system, while the battery system can optimize the use of power to ensure the effective operation of the whole home energy storage system. Its comprehensive touchscreen information display and easy-to-operate touchscreen facilitates user management of the battery system.

Product Features

- ★The system adopts high-quality lithium iron phosphate power core, bringing better product performance and reliability.
- ★Each battery module unit is equipped with an independent high-performance BMS system for scientific management of the battery cells.
- ★Touch screen displays various battery statuses.
- ★Battery module units support parallel connection for expansion.
- ★Supports multiple inverter communication matches.
- ★Battery module with floor standing design, flexible installation.
- ★Widely used in home, store, office and other applications.

Functional Description

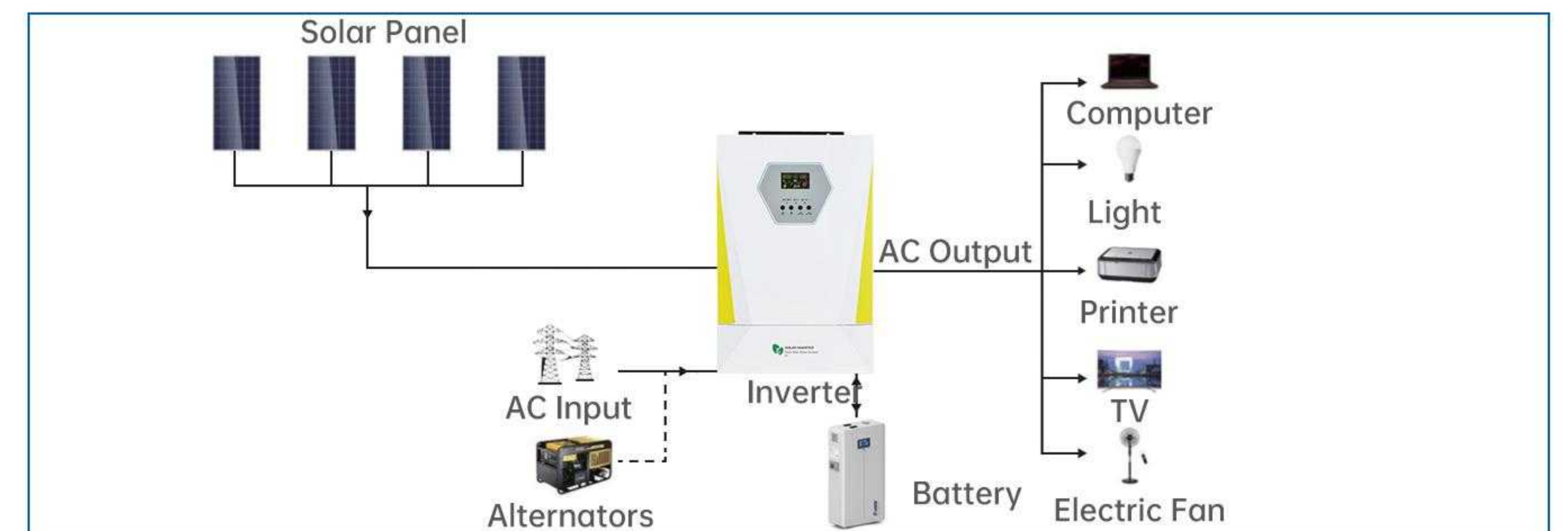


Product Parameters

Product Model	HZF-51.2-200-SB	HZF-51.2-280-SA
Battery Type	LiFePO4	LiFePO4
Nominal Voltage	51.2V	51.2V
Energy Rating	10.24KWh	14.336KWh
Rated Capacity	200Ah	280Ah
Charging Voltage	58.4V	58.4V
Discharge Cutoff Voltage	42V	42V
Maximum Continuous Charging Current	50A	140A
Maximum Continuous Discharge Current	100A	200A
Weight	about 96Kg	about 126Kg
Size (mm) [W*T*H]	W500*T200*H900	W500*T265*H950
Charging Temperature Range	0~45°C	0~45°C
Discharge Temperature Range	-20~50°C	-20~50°C
Cycle Life [1]	5000 Cycles	5000 Cycles
IP Rating	IP20	IP20
Communication Method	CAN/RS 485	CAN/RS 485
Warranty	5年	5年

[1]Test Condition: 0.2C Charge/Discharge, @25°C, 60%DOD

Photovoltaic System Connection



No.	Project Name	Clarification
1	SOC Indicator	Display Battery Capacity Status
2	Warning Indicator	Displays the fault status, indicated by the red light when there is a fault, the red light will come on will come on
3	Operation Indicator Light	Displays the operating status of the device
4	Address Dip Switch	Setting the battery address
5	Sleep/Wake	Reset Switch
6	CAN Communication	CAN Communication Interface
7	RJ45 RS485 Communication*2	RS-485 Communication Interface
8	Battery Input/Output	Power Connectors +
9	Battery Input/Output	Power Connectors -

HZF-51.2V Series

LITHIUM IRON PHOSPHATE BATTERY RACK MOUNTED ENERGY STORAGE MODULE



Product

Battery systems mainly provide power storage for solar energy systems in family homes, stores, and offices, while battery systems optimize the use of power and ensure the efficient operation of the complete energy storage system.

Product Features

- ★The system adopts high-quality lithium iron phosphate power core, bringing better product performance and reliability.
- ★Each battery module unit is equipped with an independent high-performance BMS system for scientific management of the battery cells.
- ★Battery module units support parallel connection for expansion.
- ★Supports multiple inverter communication matches.
- ★Battery storage modules are in a standard 19-inch rack-mount design for easy installation.
- ★Widely used in home, store, office and other applications.

Functional Description

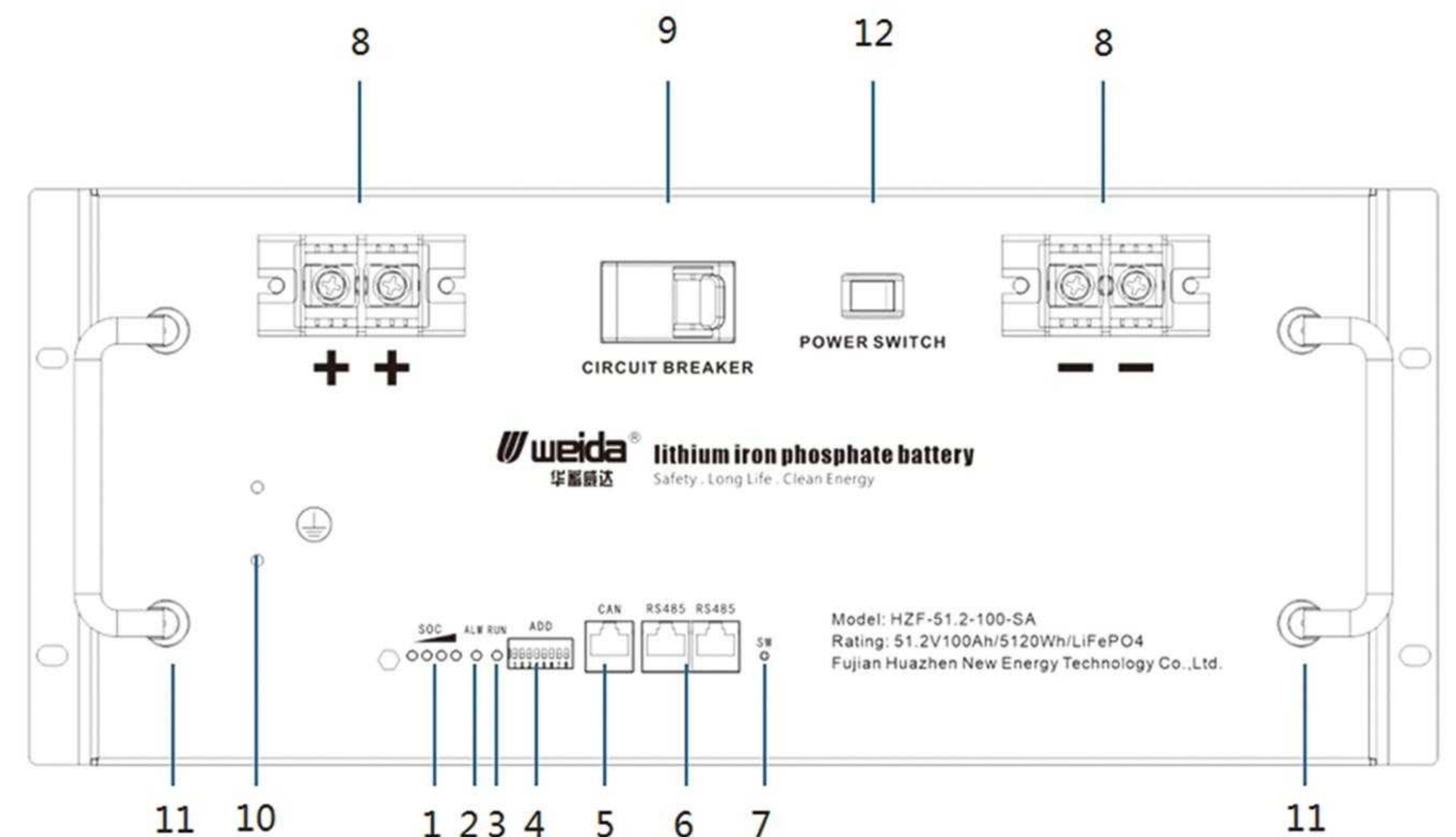
- | | |
|---|---|
| 1.SOC Display battery capacity status | 7.RESTART SWITCH |
| 2.ALM Indicates fault status, indicated by a red light, which is illuminated when there is a fault. | 8.BATTERY OUTPUT
Connection terminal: positive +, negative - |
| 3.RUN Reflects the operational status of the equipment. | 9.CIRCUIT BREAKER |
| 4.ADD Setting the battery address. | 10.GROUNDING POINT |
| 5.CAN CAN Communications Interface | 11.HANDLE For equipment handling and installation |
| 6.RS-485 RS-485 Communications Interface | 12.POWER SWITCH |

Product Parameters

Project Name	HZF-51.2-100-SA	HZF-51.2-200-SC	Clarification
Rated Capacity	100Ah	200Ah	Rated Discharge(1) Rated Charge(2)
Minimum Capacity	98Ah	196Ah	
Energy Rating	5.12kWh	10.24kWh	
Nominal Voltage	51.2V		Configuration:16 cells, single cell voltage 3.2V
Minimum Discharge Voltage	42.0V		
Maximum Charging Voltage	58.4V		At 25±3°C
Maximum Continuous Charging Current	50A	100A	At 25 ± 3°C
Maximum Continuous Discharge Current	100A		At 25 ± 3°C
Permissible Operating Temperature Range	Charge 0 ~ 50°C Discharge -20 ~ 60°C		
Humidity Level	10% ~ 85% RH	5% ~ 85% RH	Operation/Storage
Storage Temperature Range	0 ~ 50°C		Up To 6 Months
Weight	≤ 45kg	≤ 80kg	
Size (mm) [W*D*H]	440*460*197	440*565*235	
Cycle Life	≥ 5000		@0.2C 80%DOD

(1) Rated Discharge: Constant current discharge (0.2C) at 25±3°C to the end of voltage (42.0V) discharge.

(2) Rated charging: Charge at 0.2C constant current to battery voltage 58.4V, then switch to constant voltage 58.4V charging, until the charging current is less than 0.05C, then stop charging.



HZGA Series(5.5kW-11kW)

HIGH FREQUENCY SOLAR ENERGY STORAGE INVERTER

Product

HZGA series is a pure sine wave high-frequency solar inverter control machine, with a wide range of PV input, when the energy is enough to carry the load without connecting the battery, with high power density, small size, simple operation, high efficiency, low no-load loss and other advantages. It is widely used in household system, communication base station, monitoring system, pasture area, 5G auxiliary power supply, etc.



Product Characteristics

- ★Lithium self-start, better match lithium charging.
- ★Intelligent power supply mode, intelligent distribution of solar panels/utility/battery power share.
- ★Intelligent adjustable mains charging voltage / PV charging voltage, accurately matching various battery charging requirements.
- ★Lithium battery BMS protocol, can be external WIFI, data real-time monitoring.
- ★Fuse-free switching battery anti-reverse connection function for safer installation.
- ★1.0 PF, high efficiency inverter, low loss energy/environmental/power/money saving.
- ★Supports operation without batteries, reducing system costs.
- ★Up to nine units can be paralleled to support higher-capacity loads, and expansion is simple.

Functional Description



1. AC Input
2. AC Output
3. RS232 Communication Interface
4. BMS/RS485 Communication Interface
5. Dry Contact
6. Parallel Communication Interface
7. Battery Input
8. Power Switch
9. PV Input



1. LCD Screen
2. Status Indicator
3. Charging Indicator
4. Malfunction Indicator
5. Exit
6. Up
7. Down
8. Enter

Product Parameters

Model	HZGA-5548JMHB	HZGA-6248JMHB	HZGA-8648MHB	HZGA-11048MHB	
Input voltage	Input Formation L+N+PE				
	AC Input 220/230/240VAC				
	Input Voltage Range 90-280VAC±3V (Normal Mode)		170-280VAC±3V (UPS Mode)		
	Frequency 50/60Hz (Adaptive)				
Output	Rated Power	5500W	6200W	8600W	11000W
	Output Voltage	220/230/240VAC±5%			
	Output Frequency	50/60Hz±0.1%			
	Output Wave	Pure Sine Wave			
	Transfer Time(Adjustable)	10ms for Computer Equipment,20ms for Household Equipment			
	Peak Power	11000VA	12400VA	17200VA	22000W
Grid connected Operation	Overload Ability	Battery Mode : 21s@105%-150% Load 400ms@>200% Load 11s@150%-200% Load			
	Output Voltage	220/230/240VAC			
	Grid Voltage Range	195-253VA			
	Grid Frequency Range	49-51±1Hz/59-61±1Hz			
	Output Current	23.9A	26.9A	34.7A	47.8A
	Power Factor Range	> 0.99			
Battery	(DC/AC) Conversion Efficiency	98%			
	Rated Voltage	48VDC			
	Constant Charging Voltage (Adjustable)	56.4VDC			
Charger	Float Charging Voltage (Adjustable)	54VDC			
	PV Charging Method	MPPT	MPPT	MPPT*2	MPPT*2
	Max PV Input	6200W	6200W	2x5500W	2x5500W
	MPPT Tracking Range	60-500VDC	60-500VDC	90-500VDC	90-500VDC
	Best VMP Working Range	300-400VDC	300-400VDC	300-400VDC	300-400VDC
	MAX PV Input Voltage	500VDC	500VDC	500VDC	500VDC
	MAX PV Input Current	18A	18A	18A/18A	18A/18A
	MAX PV Charge Current	100A	120A	150A	150A
	MAX AC Charge Current	60A	100A	120A	150A
	MAX Charge Current	100A	120A	150A	150A
Display	LCD	Can display operating mode/load/input/output			
Interface	RS232	5PIN/Pitch2.54mm, Baud Rate 2400			
	Expansion Slot Communication Interface	Lithium Battery BMS Communication Card,WIFI 2×5PIN/Pitch2.54mm			
	Parallel Interface	Support Parallel			
Ambient Temperature	Operating Temperature	-10°C~50°C			
	Storage Temperature	-15°C~60°C			
	Ork Altitude	No more than 1000m, if 1000m<,Rate power will lower, MAX 4000m, Refer to IEC62040			
	Operating Environment Humidity	20%-95% Non Condensing			
Dimension	Noise	≤50db			
	L*W*H (mm)	495*312*146mm	570*500*148mm		
Standards and Certifications		EN-IEC 60335-1,EN-IEC 60335-2-29,IEC 62109-1			