

Household savings series

Our modern lithium-ion battery LiFePo4 technology, we EnergiaSola offers a full range of high-safety, long-life and high-efficiency home energy storage solutions. Cover stacked, wall-mounted, all-in-one and Pack-type products can be flexibly adapted to different spaces and needs. At the same time, it provides multi-power options in line with American and European standards to meet the all-round expectations of global households for stable, reliable and economical electricity consumption.

- 1 Stackable Type
- 2 Wall-Mounted Type
- 3 Hybrid intergrated
- 4 Pack type



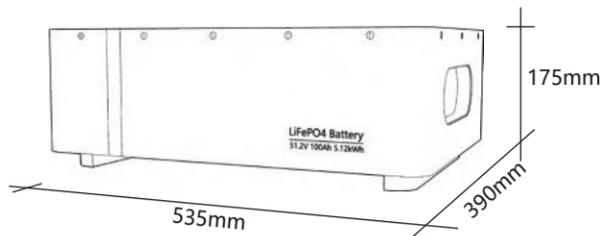
Low-Voltage Stackable Type

5120Wh 200Ah

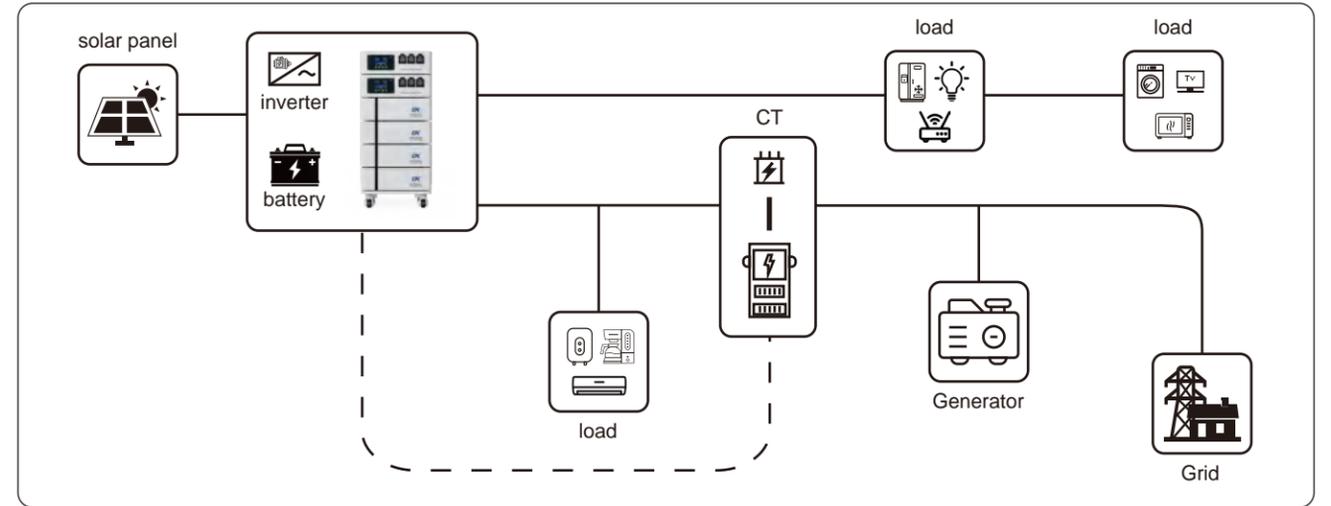


Easy to operate and expandable battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ Maximum continuous charge/discharge current 1500A
- ▷ Maximum available battery 76.8kWh
- ▷ Inverter max load power 33KW
- ▷ The inverter module can be selected as European standard/American standard



Basic architecture



Specification

Battery parameters		
Battery power	5120Wh*2	
Nominal voltage	51.2V	
Nominal capacity	100Ah*2	
Max. continuous charge/discharge current	50A/100Ah*2	
Cycle life	6000+	
Weight of a single module	≈43kg	
Inverter parameters		
Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	5600W	3600W
Peak power	11000W	7200W
PV input voltage	100Vdc~500Vdc	120Vdc~300Vdc
PV maximum input power	5400W	4500W
Max. PV/Mains Charge Current	100A/60A	80A/40A
Weight of a single module	≈24kg	≈24kg

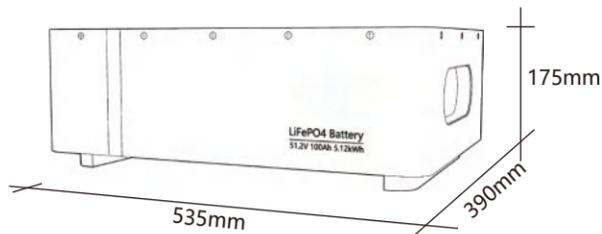
Low-Voltage Stackable Type

5120Wh 400Ah

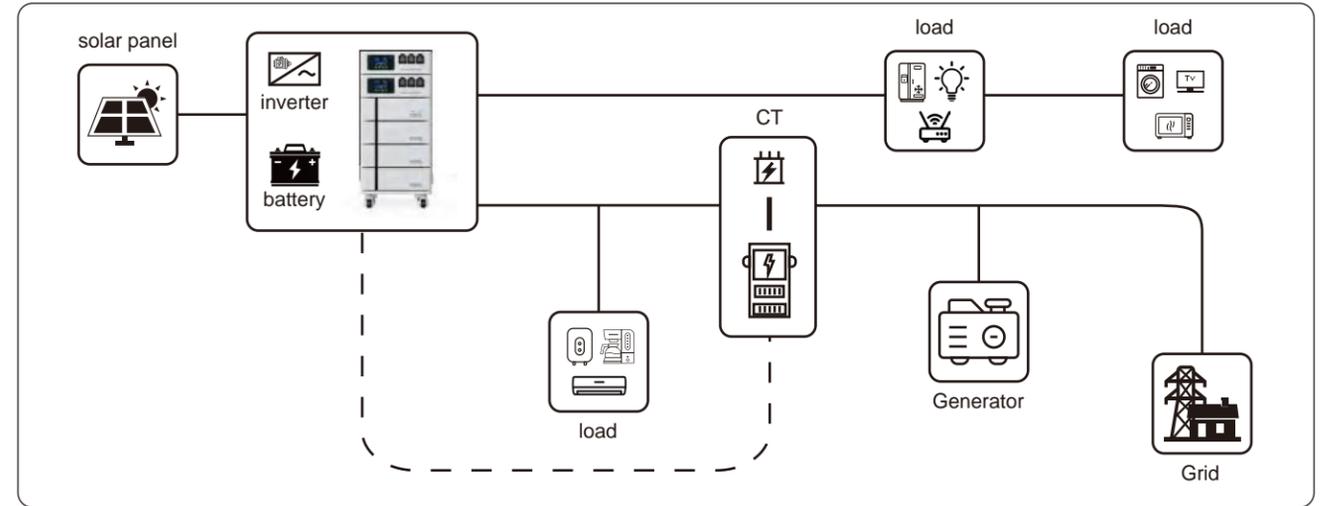


Easy to operate and expandable battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ Maximum continuous charge/discharge current 1500A
- ▷ Maximum available battery 76.8kWh
- ▷ Inverter max load power 33KW
- ▷ The inverter module can be selected as European standard/American standard



Basic architecture



Specification

Battery parameters		
Battery power	5120Wh*4	
Nominal voltage	51.2V	
Nominal capacity	100Ah*4	
Max. continuous charge/discharge current	50A/100Ah*4	
Cycle life	6000+	
Weight of a single module	≈43kg	
Inverter parameters		
Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	5600W*2	3600W*2
Peak power	11000W*2	7200W*2
PV input voltage	100Vdc~500Vdc	120Vdc~300Vdc
PV maximum input power	5400W*2	4500W*2
Max. PV/Mains Charge Current	100A/60A*2	80A/40A*2
Weight of a single module	≈24kg	≈24kg

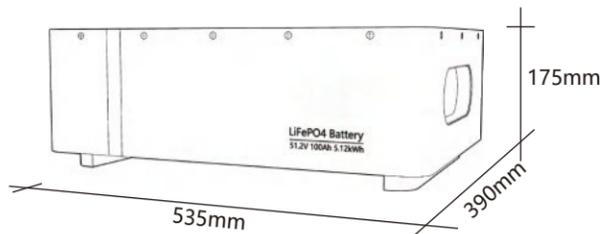
Low-Voltage Stackable Type

5120Wh 600Ah

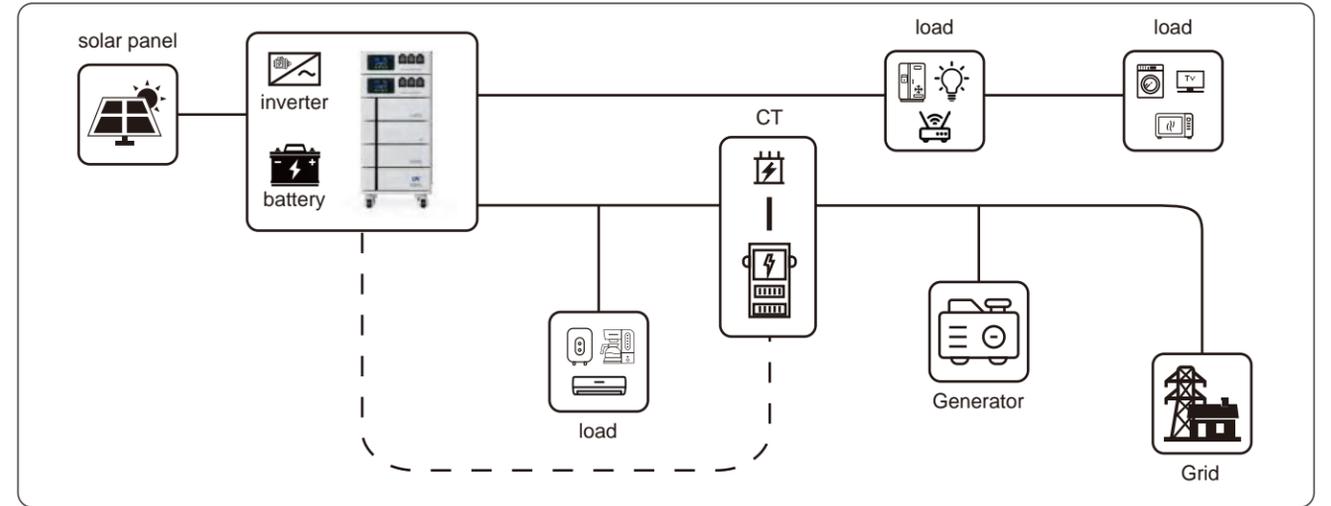


Easy to operate and expandable battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ Maximum continuous charge/discharge current 1500A
- ▷ Maximum available battery 76.8kWh
- ▷ Inverter max load power 33KW
- ▷ The inverter module can be selected as European standard/American standard



Basic architecture



Specification

Battery parameters		
Battery power	5120Wh*6	
Nominal voltage	51.2V	
Nominal capacity	100Ah*6	
Max. continuous charge/discharge current	50A/100Ah*6	
Cycle life	6000+	
Weight of a single module	≈43kg	
Inverter parameters		
Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	5600W*3	3600W*3
Peak power	11000W*3	7200W*3
PV input voltage	100Vdc~500Vdc	120Vdc~300Vdc
PV maximum input power	5400W*3	4500W*3
Max. PV/Mains Charge Current	100A/60A*3	80A/40A*3
Weight of a single module	≈24kg	≈24kg

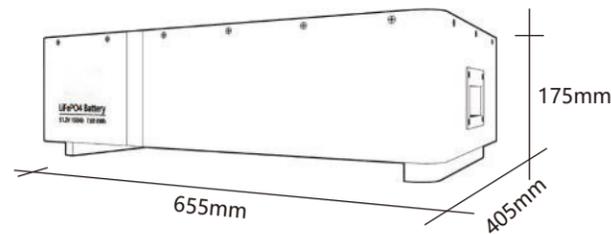
Low-Voltage Stackable Type

7680Wh 300Ah

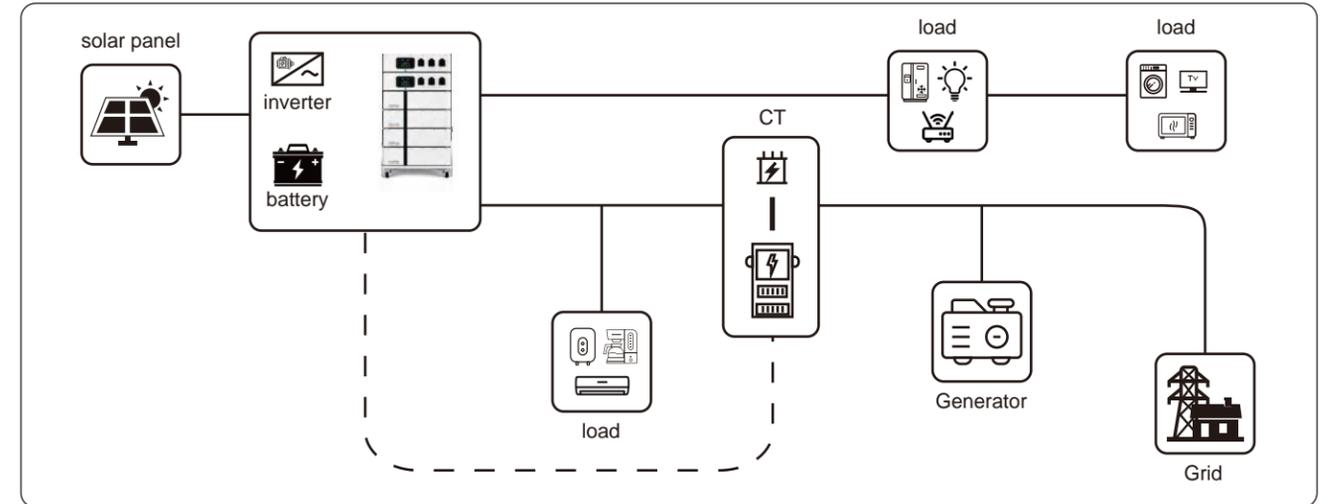


Easy to operate and expand-able battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ The maximum usable battery is 115Kwh
- ▷ The maximum load power of the inverter is 66KW
- ▷ Support APP/PC remote monitoring and control
- ▷ The inverter module can be selected as a European standard/American standard



Basic architecture



Specification

Battery parameters		
Battery power	7680Wh*2	
Nominal voltage	51.2V	
Nominal capacity	150Ah*2	
Max. continuous charge/discharge current	100A/100Ah*2	
Cycle life	6000+	
Weight of a single module	≈61.5kg	
Inverter parameters		
Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	11000W	6500W
Peak power	22000W	12000W
PV input voltage	100Vdc~500Vdc	120Vdc~500Vdc
PV maximum input power	11000W	4500W+4500W
Max. PV/Mains Charge Current	150A/120A	150A/120A
Weight of a single module	≈28kg	≈28kg

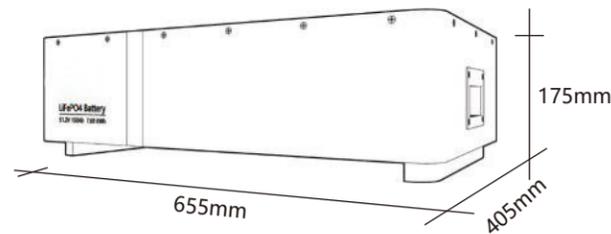
Low-Voltage Stackable Type

7680Wh 600Ah

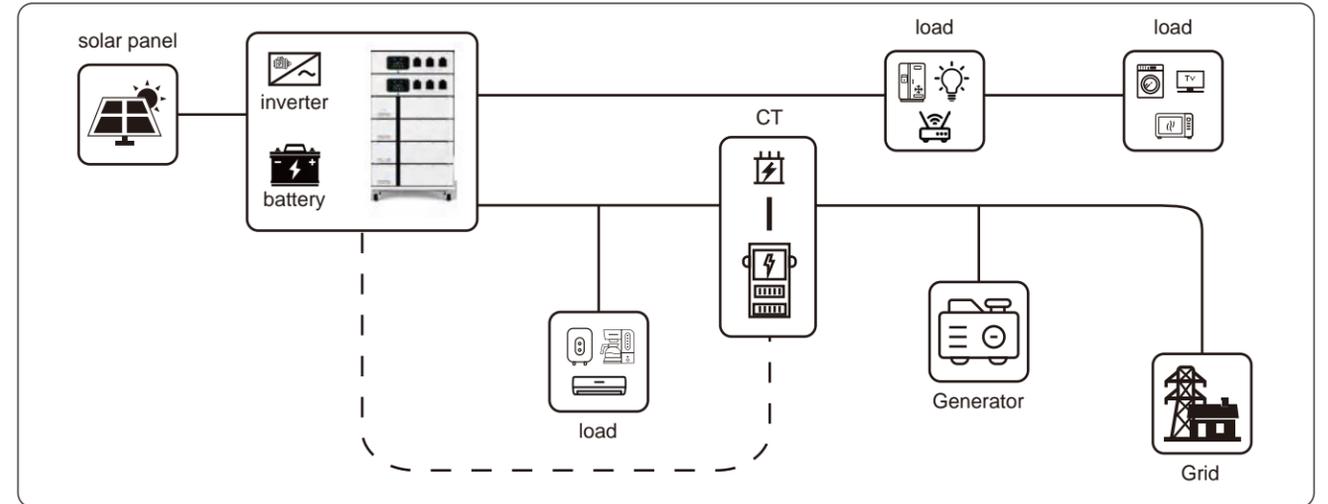


Easy to operate and expand-able battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ The maximum usable battery is 115Kwh
- ▷ The maximum load power of the inverter is 66KW
- ▷ Support APP/PC remote monitoring and control
- ▷ The inverter module can be selected as a European standard/American standard



Basic architecture



Specification

Battery parameters		
Battery power	7680Wh*4	
Nominal voltage	51.2V	
Nominal capacity	150Ah*4	
Max. continuous charge/discharge current	100A/100Ah*4	
Cycle life	6000+	
Weight of a single module	≈61.5kg	
Inverter parameters		
Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	11000W*2	6500W*2
Peak power	22000W*2	12000W*2
PV input voltage	100Vdc~500Vdc	120Vdc~500Vdc
PV maximum input power	11000W*2	4500W+4500W*2
Max. PV/Mains Charge Current	150A/120A*2	150A/120A*2
Weight of a single module	≈28kg	≈28kg

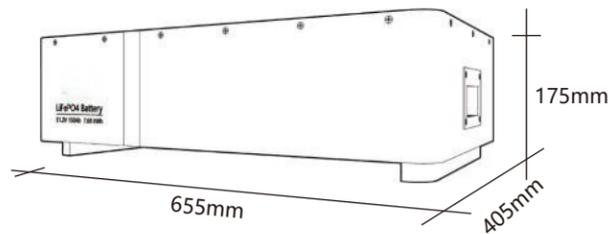
Low-Voltage Stackable Type

7680Wh 900Ah

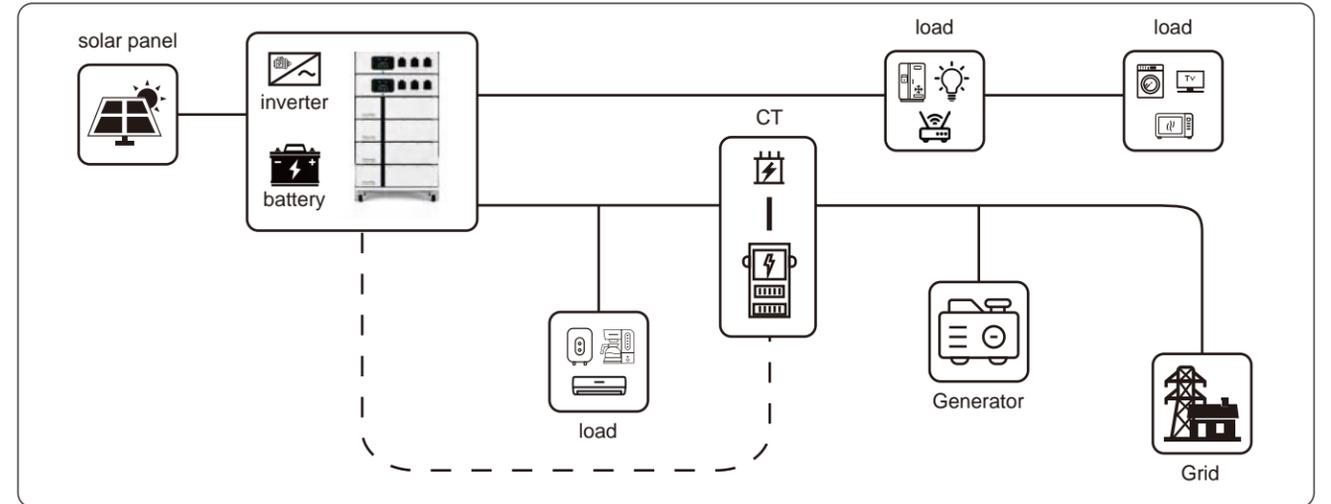


Easy to operate and expand-able battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ The maximum usable battery is 115Kwh
- ▷ The maximum load power of the inverter is 66KW
- ▷ Support APP/PC remote monitoring and control
- ▷ The inverter module can be selected as a European standard/American standard



Basic architecture



Specification

Battery parameters

Battery power	7680Wh*6	
Nominal voltage	51.2V	
Nominal capacity	150Ah*6	
Max. continuous charge/discharge current	100A/100Ah*6	
Cycle life	6000+	
Weight of a single module	≈61.5kg	

Inverter parameters

Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	11000W*3	6500W*3
Peak power	22000W*3	12000W*3
PV input voltage	100Vdc~500Vdc	120Vdc~500Vdc
PV maximum input power	11000W*3	4500W+4500W*3
Max. PV/Mains Charge Current	150A/120A*3	150A/120A*3
Weight of a single module	≈28kg	≈28kg

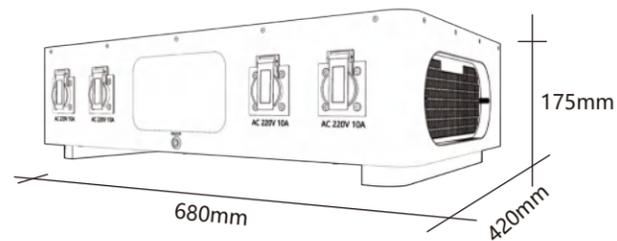
Low-Voltage Stackable Type

9420Wh 368Ah

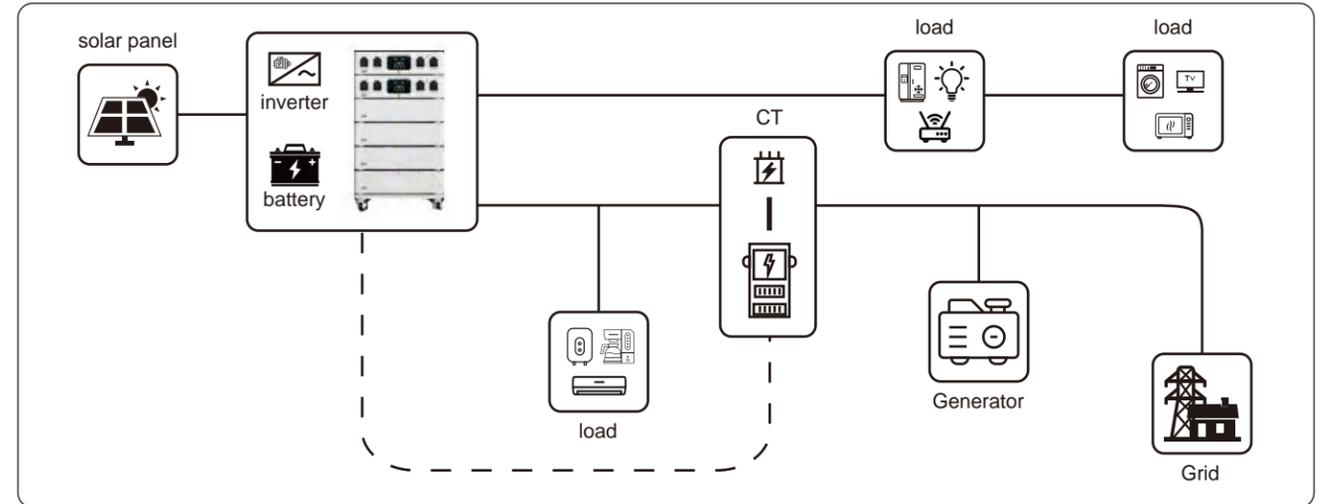


Easy to operate and expand-able battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ The maximum usable battery is 141.3Kwh
- ▷ The maximum load power of the inverter is 66KW
- ▷ Support APP/PC remote monitoring and control
- ▷ The inverter module can be selected as a European standard/American standard



Basic architecture



Specification

Battery parameters

Battery power	9420Wh*2	
Nominal voltage	51.2V	
Nominal capacity	184Ah*2	
Max. continuous charge/discharge current	100A/100Ah*2	
Cycle life	6000+	
Weight of a single module	≈72kg	

Inverter parameters

Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	11000W	6500W
Peak power	22000W	12000W
PV input voltage	100Vdc~500Vdc	120Vdc~500Vdc
PV maximum input power	11000W	4500W+4500W
Max. PV/Mains Charge Current	150A/120A	150A/120A
Weight of a single module	≈28kg	≈28kg

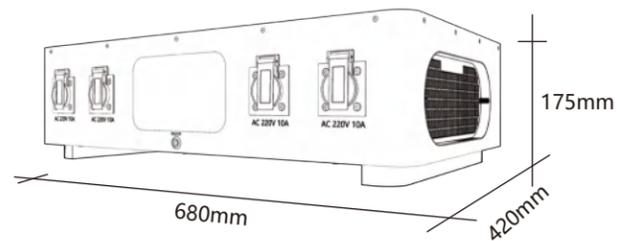
Low-Voltage Stackable Type

9420Wh 736Ah

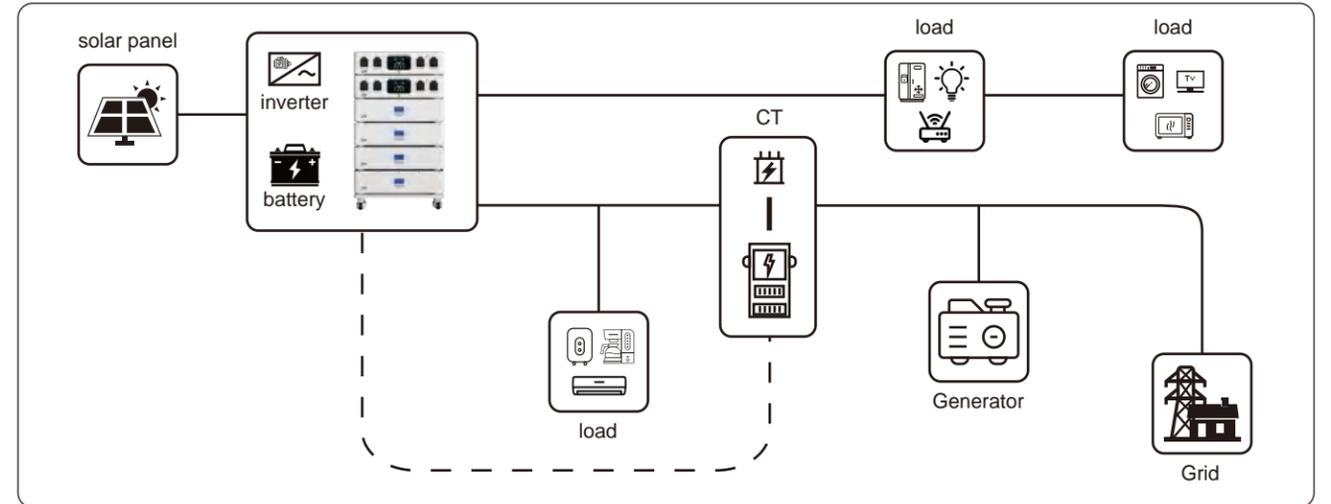


Easy to operate and expand-able battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ The maximum usable battery is 141.3Kwh
- ▷ The maximum load power of the inverter is 66KW
- ▷ Support APP/PC remote monitoring and control
- ▷ The inverter module can be selected as a European standard/American standard



Basic architecture



Specification

Battery parameters

Battery power	9420Wh*4	
Nominal voltage	51.2V	
Nominal capacity	184Ah*4	
Max. continuous charge/discharge current	100A/100Ah*4	
Cycle life	6000+	
Weight of a single module	≈72kg	

Inverter parameters

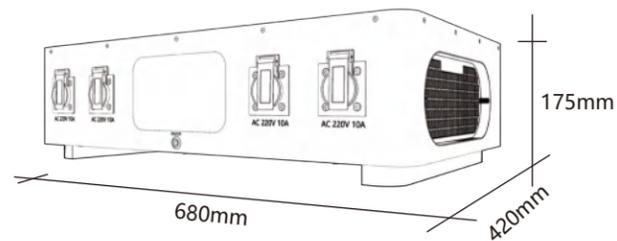
Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	11000W*2	6500W*2
Peak power	22000W*2	12000W*2
PV input voltage	100Vdc~500Vdc	120Vdc~500Vdc
PV maximum input power	11000W*2	4500W+4500W*2
Max. PV/Mains Charge Current	150A/120A*2	150A/120A*2
Weight of a single module	≈28kg	≈28kg

Low-Voltage Stackable Type
9420Wh 1104Ah

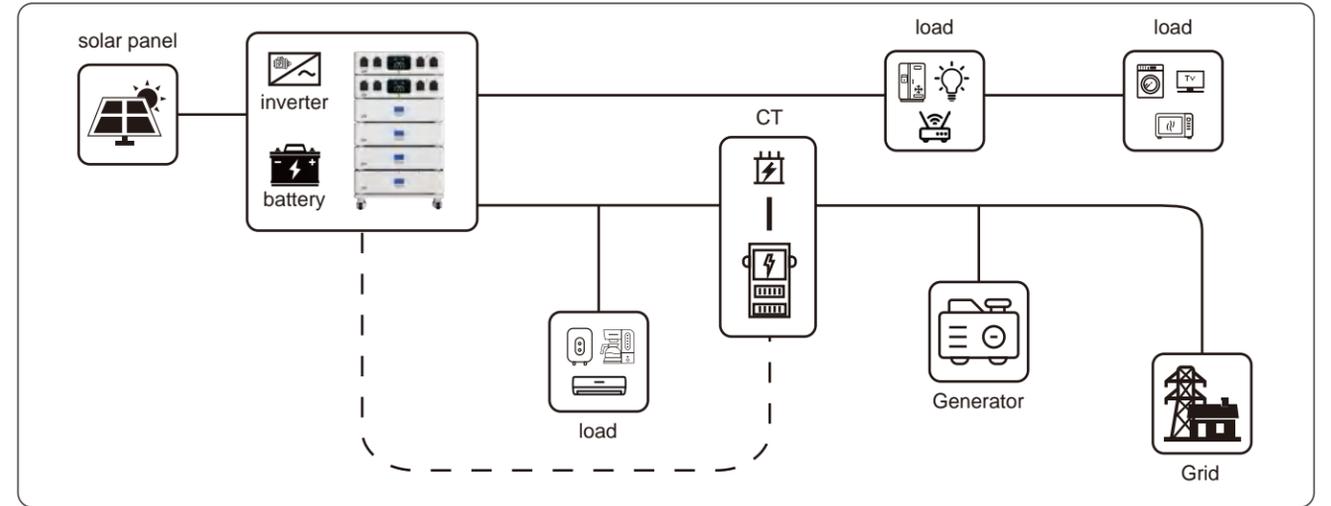


Easy to operate and expand-
 able battery capacity

- ▷ Supports up to 15 connections
- ▷ The inverter module supports expansion of 6 combinations of single-phase or and control
- ▷ The maximum usable battery is 141.3Kwh
- ▷ The maximum load power of the inverter is 66KW
- ▷ Support APP/PC remote monitoring and control
- ▷ The inverter module can be selected as a European standard/American standard



Basic architecture



Specification

Battery parameters

Battery power	9420Wh*6	
Nominal voltage	51.2V	
Nominal capacity	184Ah*6	
Max. continuous charge/discharge current	100A/100Ah*6	
Cycle life	6000+	
Weight of a single module	≈72kg	

Inverter parameters

Multiple Power Options:	European standard	American Standard
Output voltage	230V±5%	120V±5%
Output frequency	50Hz/60Hz (self-frame recognition)	50Hz/60Hz (self-frame recognition)
Output power	11000W*3	6500W*3
Peak power	22000W*3	12000W*3
PV input voltage	100Vdc~500Vdc	120Vdc~500Vdc
PV maximum input power	11000W*3	4500W+4500W*3
Max. PV/Mains Charge Current	150A/120A*3	150A/120A*3
Weight of a single module	≈28kg	≈28kg

High-Voltage Stackable Type

10240Wh 102.4V



Application

The high-voltage energy storage battery management system is mainly used in household energy storage, commercial energy storage and other application fields, the system is a distributed two-level architecture energy storage system, and the system is mainly divided into battery management master control modul (BCMM) and batterymanagement modul (BMM). The system can detect the cell voltage, cell temperature, current, total voltage and other data in real time, calculate the remaining capacity SOC in real time, estimate the battery monitoring status SOH, estimate the current battery power state SOP, effectively manage the safety of the lithium battery system, and realize information interaction with PCS through the CAN/RS485 communication interface.

The system has a maximum of 8 battery modules in a single group. The main control module forms an energy storage system with 80kWh and 40KW power output, and is distributed with multiple groups of battery systems to build greater power demand and power use, and supports mainstream high-voltage hybrid inverter protocol communication.

Specification

Parameter	
Rated capacity	100Ah
Rated voltage	102.4V
Rated energy	10.24kWh
Rated charge-discharge rate	0.5C
Operating voltage range	80V~116.8V
Standard charge/discharge current	0.2C/0.33C
Standard charge/discharge cut-off voltage	91.2V/116.8V
Maximum continuous charge current	50A
Maximum continuous discharge current	50A
Recommended scope of SOC use	10%~95%
Charging operating temperature	0°C~50°C
Discharge operating temperature	-20°C~50°C
Stable short-term storage (within 1 month)	-20°C~45°C
Stable long-term storage (within one year)	0°C~35°C
Store humidity	5%~90%
Number of cycles	6000+
Product dimensions	680*528*190mm
weight	≈81kg

Household savings series ---- Wall-Mounted Type



High security Long life High efficiency Flexible mixing



Application

The 51.2V wall mount series is a lithium phosphate battery module designed for residential energy storage applications. It has a variety of combinations, capacity and power options. The battery module integrates an intelligent BMS and supports communication with most mainstream inverters, which has great advantages in safety, cycle life, energy density, temperature range, environmental protection, etc.



Specification

Parameter	100Ah	150Ah	184Ah
Rated capacity	100Ah	150Ah	184Ah
Rated voltage	51.2		
Rated energy	5.12kWh	7.68kWh	9.42kWh
Operating voltage range	40V~58.4V		
Standard charge/discharge current	50A/75A		
Maximum continuous charge current	100A		
Maximum continuous discharge current	100A		
Recommended scope of SOC use	5%~95%		
Charging operating temperature	0°C~50°C		
Discharge operating temperature	-20°C~50°C		
Stable short-term storage (within 1 month)	-20°C~45°C		
Stable long-term storage (within one year)	0°C~35°C		
Store humidity	5%~90%		
Number of cycles	6000+		
Product dimensions	360*146*570mm	400*165*657mm	495*162*756mm
Weight	≈43kg	≈60kg	≈75kg