

Smart Power Station Pro

Charging, Storage and Inversion Integration System Comprehensive Solution

Power Solutions for Households & Businesses

Solar Panel

Smart Power Station System



Load

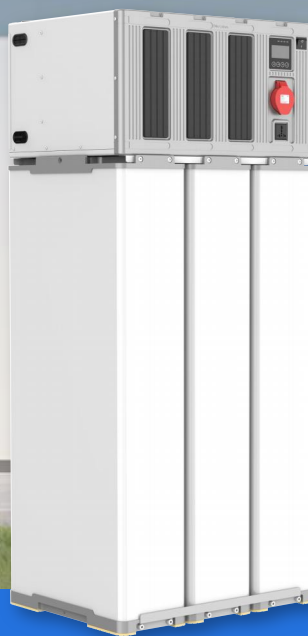
Smart Power Station

Charging, Storage and Inversion Integration System Comprehensive Solution



I. 220V/6.5kW 15kWh II. 220V/13kW 30kWh III. 220V/19.5kW 45kWh

**220V Single-phase
Standard Solution**



III. 380V/19.5kW 45kWh

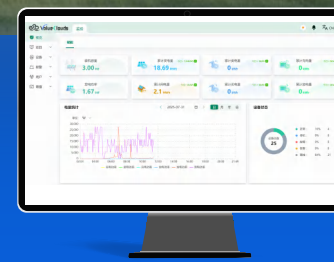
**380V Three-phase
Standard Solution**

>> Inverter
(Charging/Discharging)

>> Battery
(Electricity Storage)



WIFI

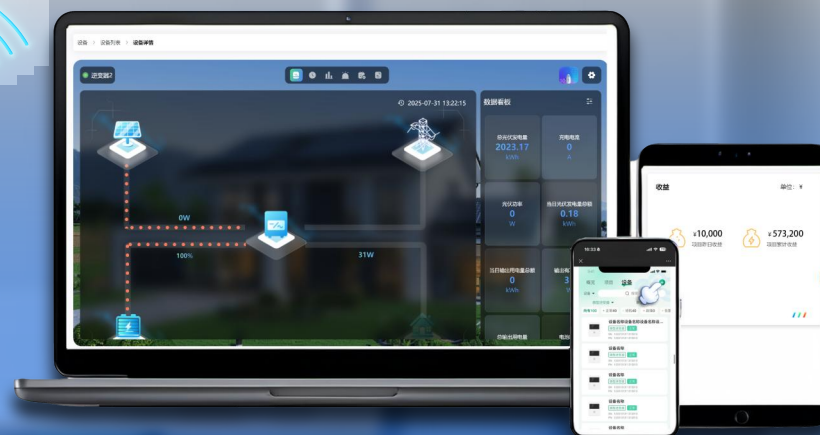
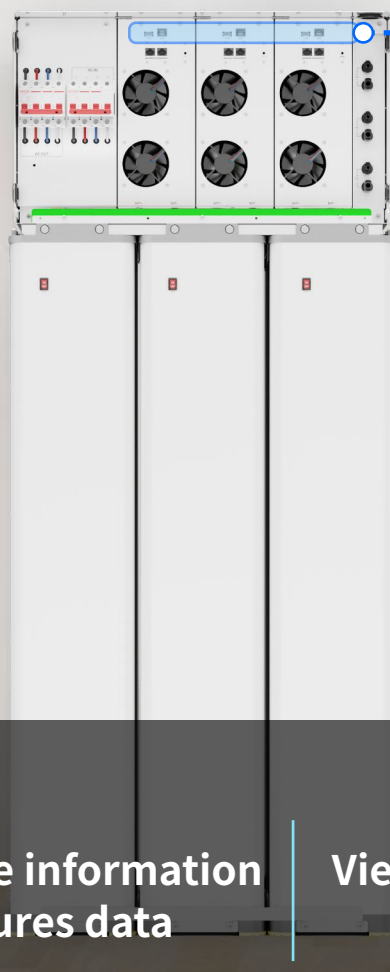


Data Management System
(Optional)

Standard Hardware Edition



Advanced Communication Edition



(Optional)

Collects device information
and captures data

View system status via mobile
app or web platform

Remote control for
convenient operation

Smart Power Station

Benefit Value

Charging, Storage and Inversion Integration System Comprehensive Solution



Demand-side response to
enhance stability



Simple installation,
convenient maintenance



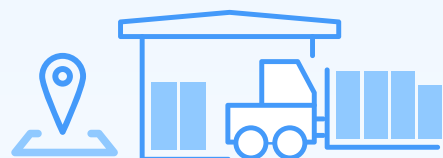
Provides an alternative power,
source during power shortages.



Dynamic expansion
and lower the transformer costs
through scalable capacity



Charging, Storage and Inversion Integration System Comprehensive Solution



Blue Carbon

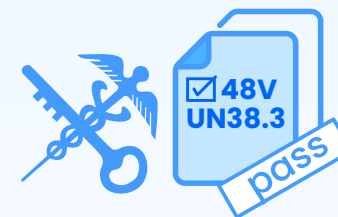
Integrated packaging for shipment

- System cost is reduced to less than 50%
- All wiring has been completed at the factory to reduce error rate



Safe and worry-free transportation

- Directly shipped to the sea port, ensuring safety and efficiency



Unimpeded customs clearance for sea transportation

- The high costs of transportation, safety certification, and construction caused by high-voltage systems have been visibly reduced

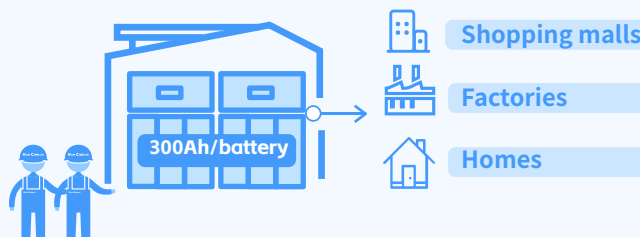
Factories

Total purchasing price of
220V/380V solar system

=

Product Cost + Logistics Cost
(transportation fee + storage fee
+ load/unloading fee)
+ Inventory Cost + Team Training Cost
+ Installation & Construction Cost

Output 220/380V



Easy installation, wide usage

- Direct access to users, easy installation, no complicated tools or professional skills required



Delivery upon arrival, efficiency highly improved

- Improve logistics efficiency and shorten delivery time

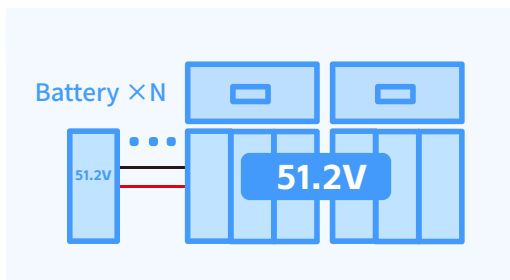
Businesses

Users

Smart Power Station

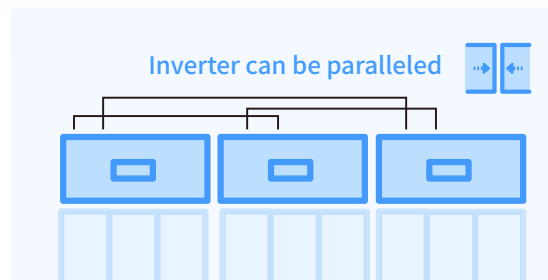
System Advantages

Charging, Storage and Inversion Integration System Comprehensive Solution



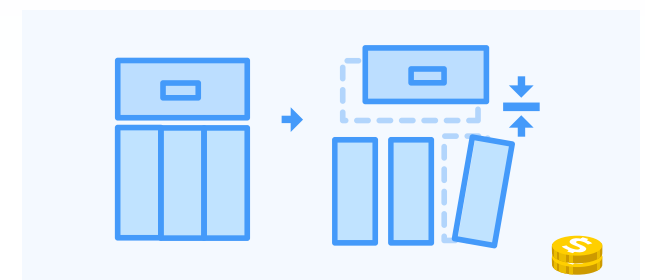
Different battery capacity options

- Modular design, 51.2V battery can be dynamically expanded according to demand



Maximum output power is 58.5kw

- Electric energy convergence and distribution to meet different electricity demands.



Integrated design, simple installation, and product can be disassembled separately without any impacts.

- Avoid moving the battery to reduce maintenance difficulty

Smart Power Station

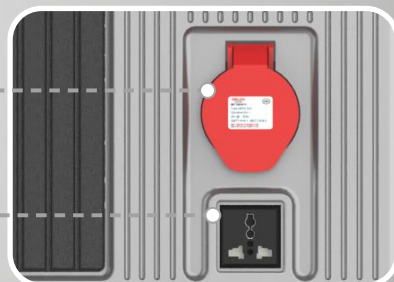
Charging, Storage and Inversion Integration System Comprehensive Solution

Details Display

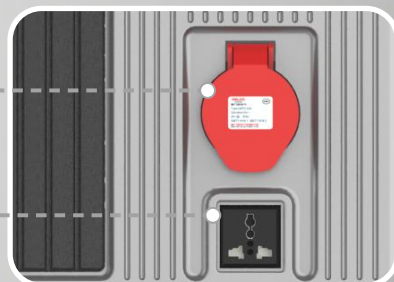
LCD
Smart Display



380V Output



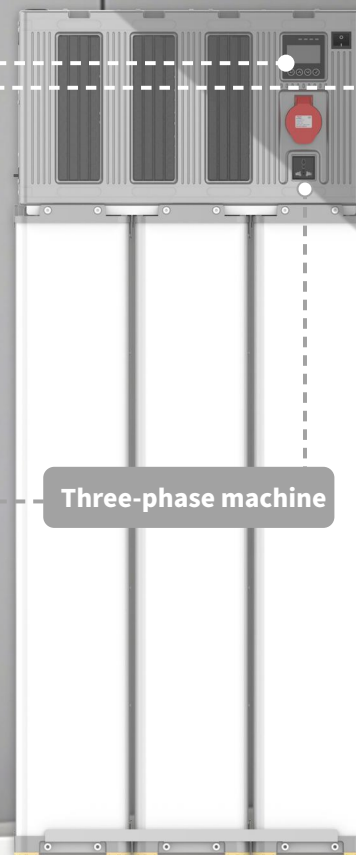
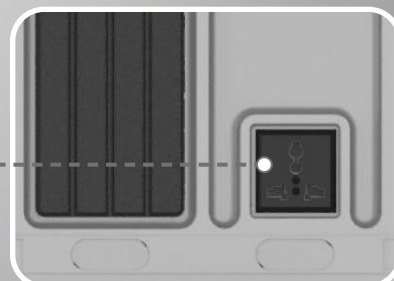
220V Output



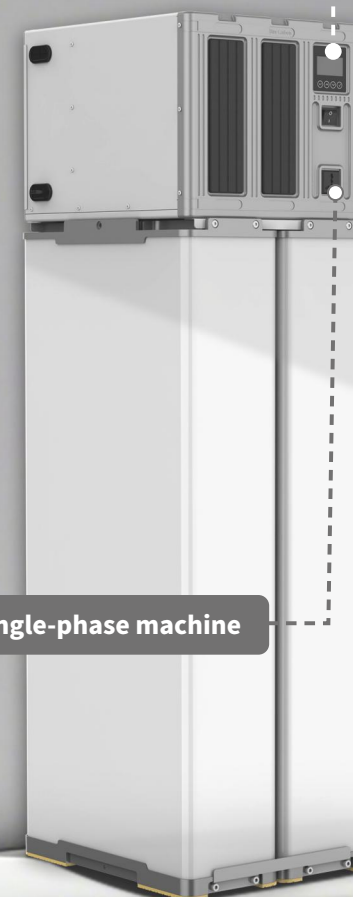
Compatible with sockets of different voltage specifications

*Cannot be used at the same time

220V Output



Three-phase machine

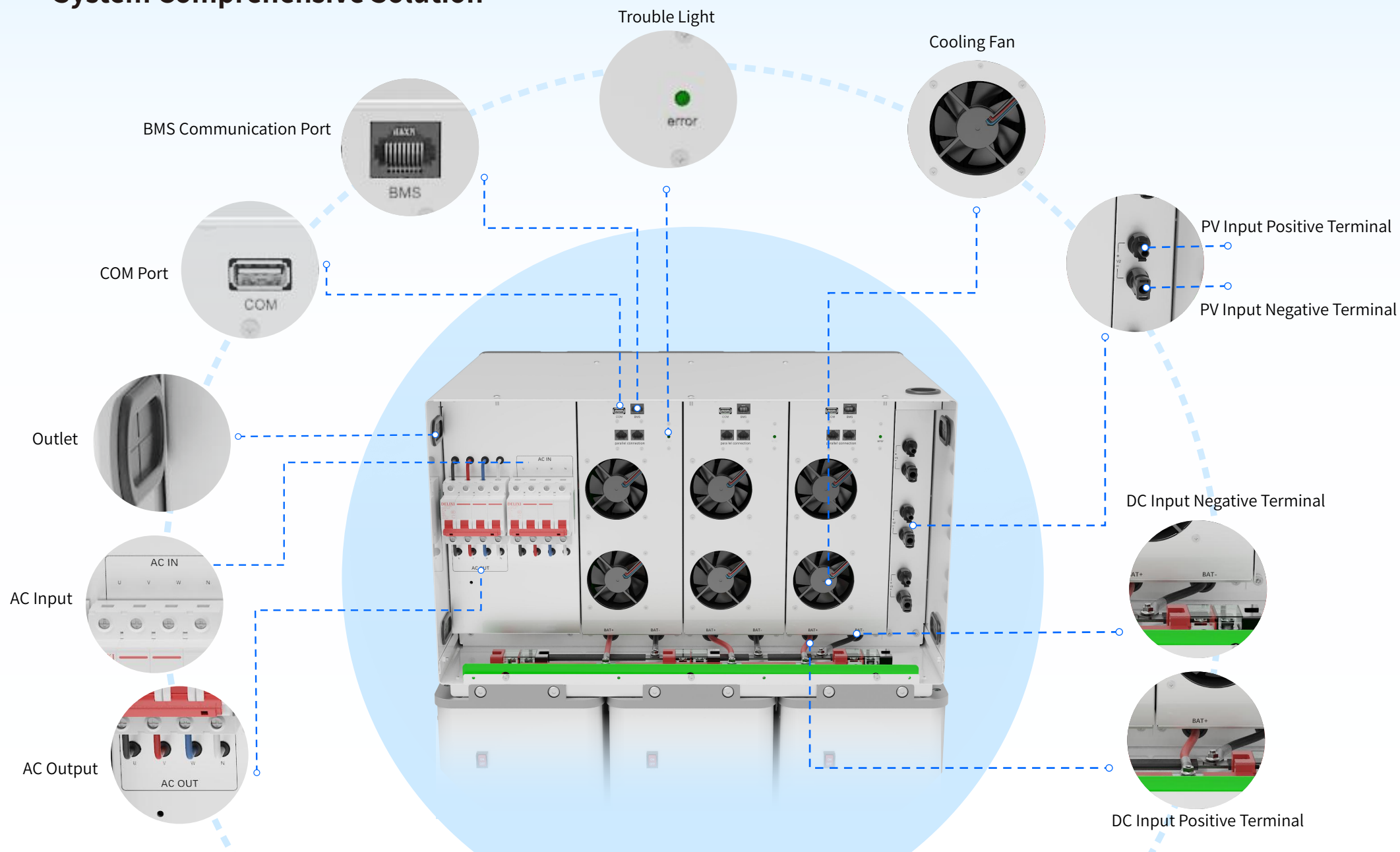


Single-phase machine

Smart Power Station

Details Display

Charging, Storage and Inversion Integration System Comprehensive Solution



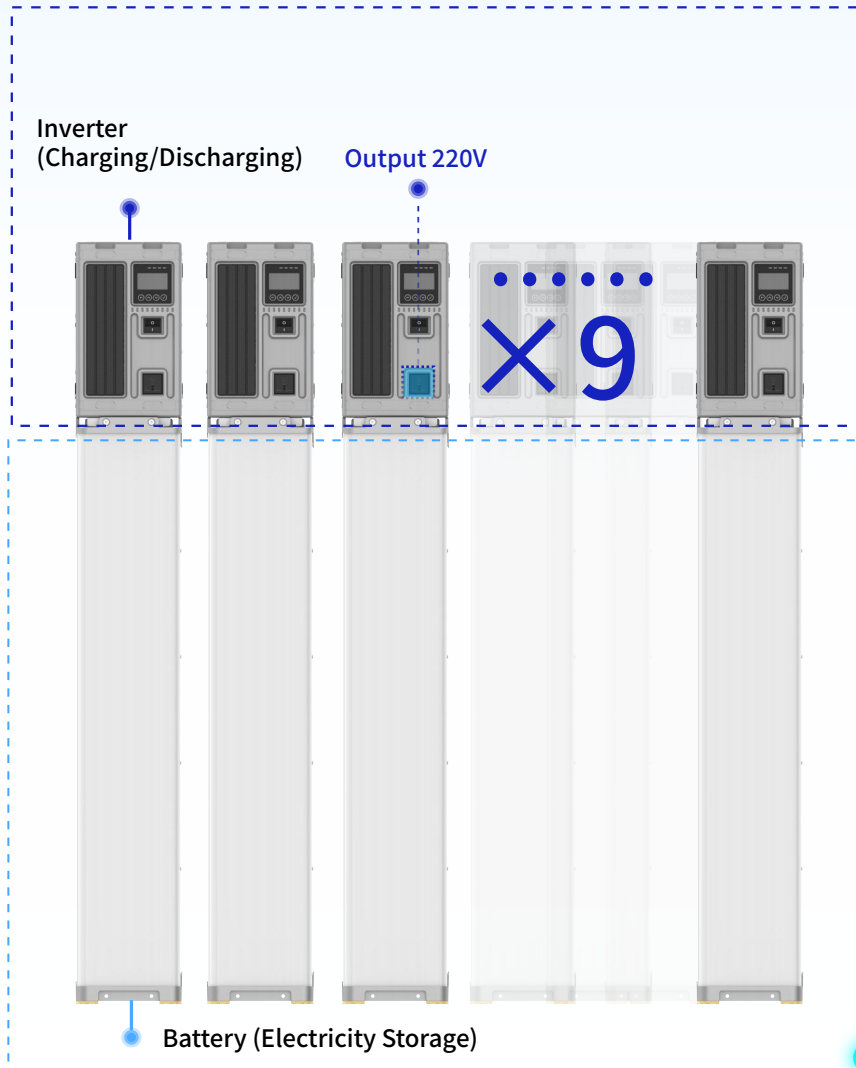


**Charging, Storage and
Inversion Integration**
System Comprehensive Solution

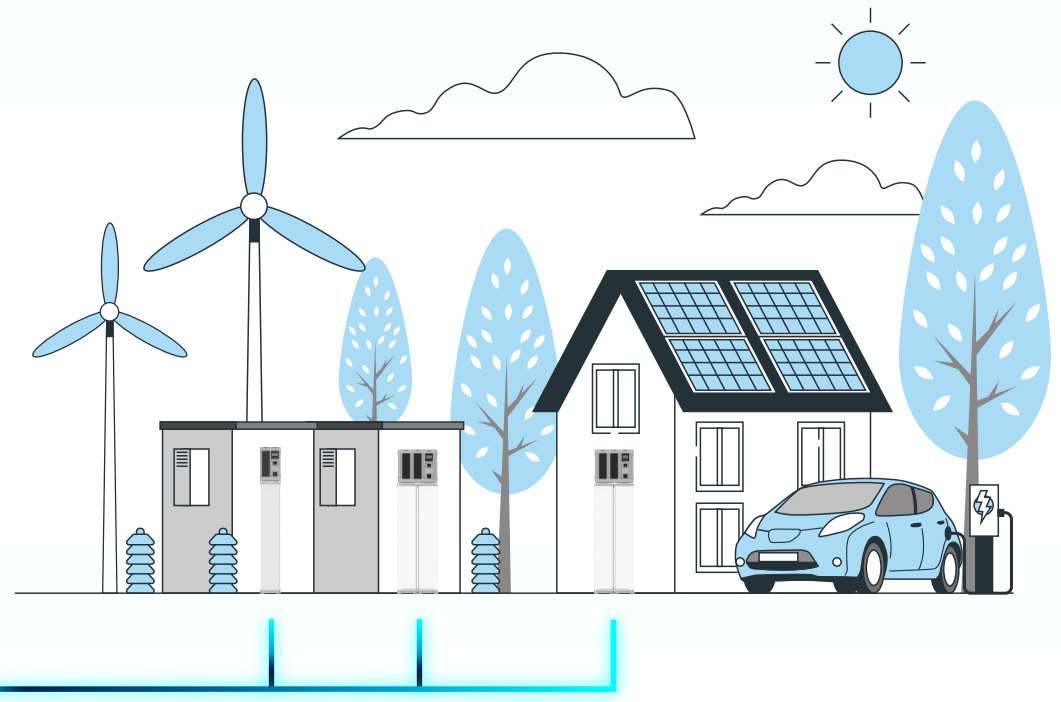
220V Single-phase

220V

System Configuration



Nine sets in parallel can output maximum
220V 58.5kW





**Charging, Storage and
Inversion Integration**
System Comprehensive Solution

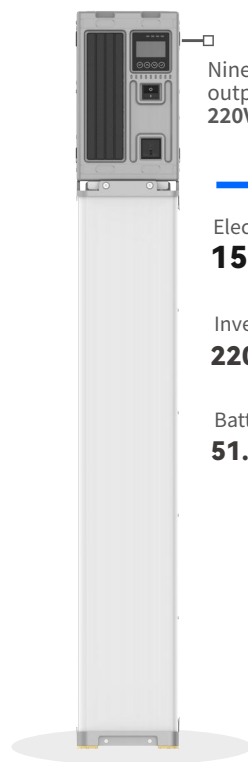
220V Single-phase

220V

System Configuration

220V single-phase system solution

It is suitable for household energy storage management and power supply for large electrical appliances. It can be equipped with photovoltaic modules to form a household photovoltaic storage system. It can be used as a power supply source or backup power source in remote areas or areas with unstable power supply, and supports renewable energy charging. It also meets the needs of small business daily operations and peak-valley arbitrage.

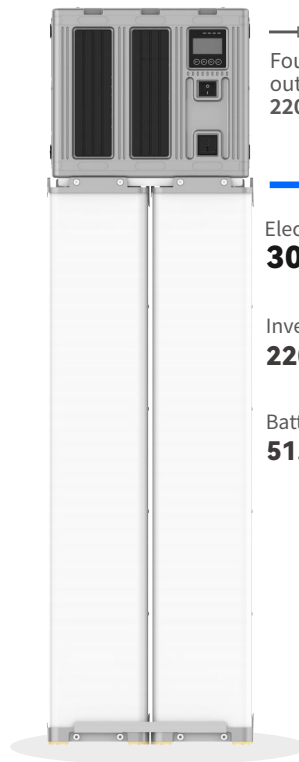


□
Nine sets in parallel can
output maximum
220V 58.5kW

Electricity(kWh)
15kWh

Inverter rated power
220V/6.5kW

Battery nominal capacity
51.2V/300Ah

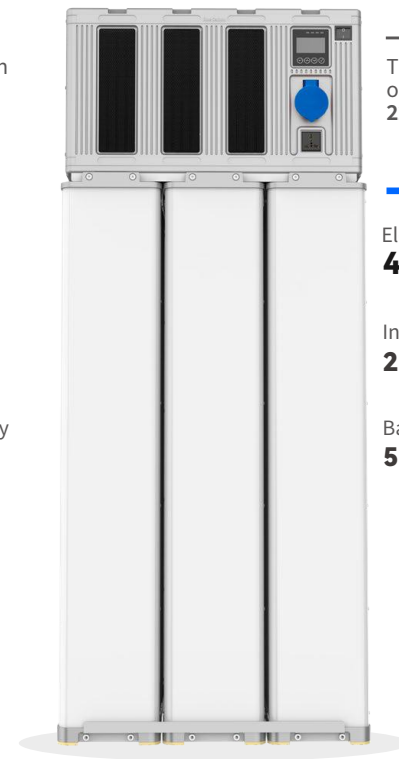


□
Four sets in parallel can
output maximum
220V 52kW

Electricity(kWh)
30kWh

Inverter rated power
220V/13kW

Battery nominal capacity
51.2V/600Ah



□
Three sets in parallel can
output maximum
220V 58.5kW

Electricity(kWh)
45kWh

Inverter rated power
220V/19.5kW

Battery nominal capacity
51.2V/900Ah



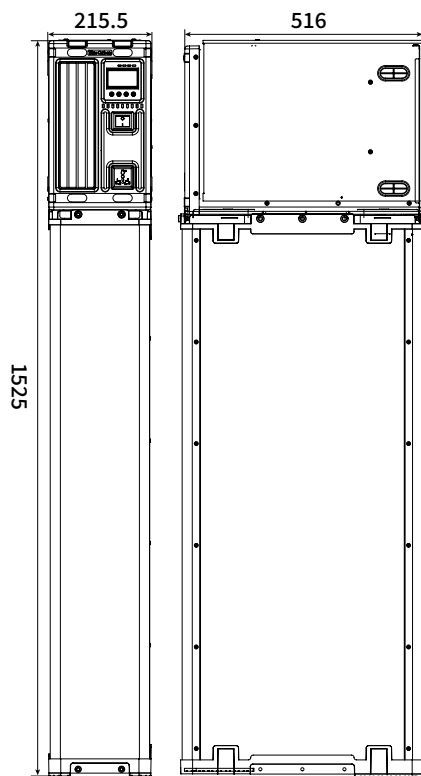
**Charging, Storage and
Inversion Integration**
System Comprehensive Solution

220V Single-phase

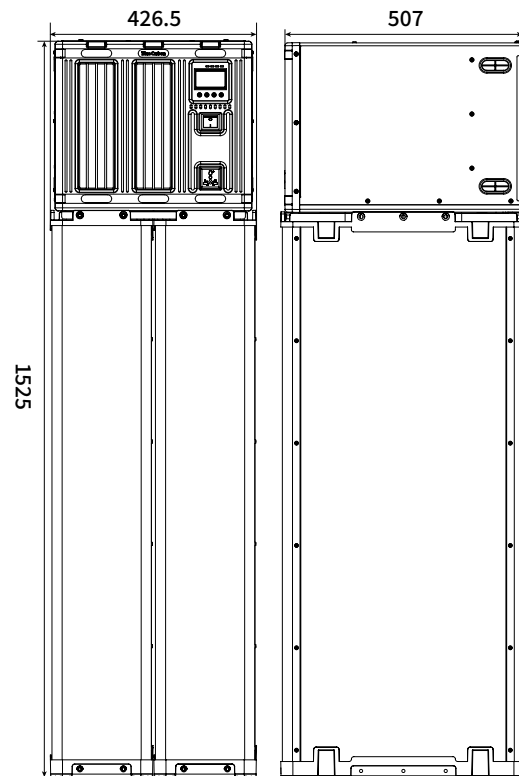
220V

System Configuration

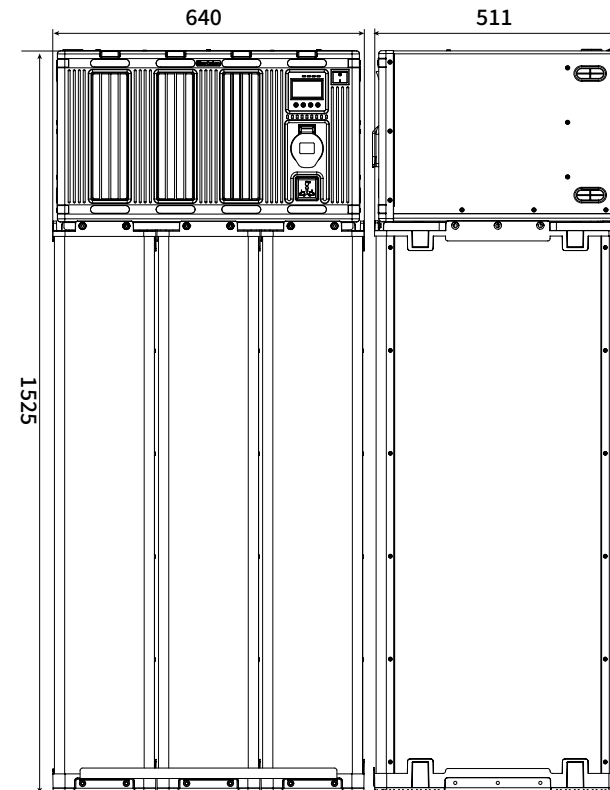
220V Single-phase | Product size



220V/6.5kW 15kWh



220V/13kW 30kWh



220V/19.5kW 45kWh

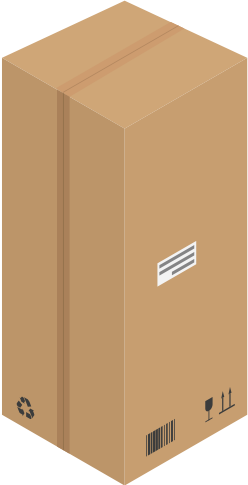
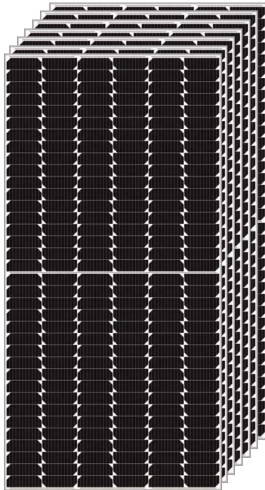
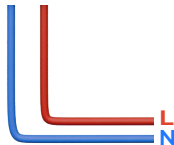


**Charging, Storage and
Inversion Integration**
System Comprehensive Solution

220V Single-phase

220V

System Configuration

Standard Components		Optional Components			
① 		① 	② 	③ 	④ 
• 220V/6.5kW 15kWh Packing Carton × 1 Set		MC4 Plug × 2 Sets	585W Photovoltaic Modules × (4~14)	Photovoltaic Wire × 1 Roll	Internal Wiring × 1 Roll
• 220V/13kW 30kWh Packing Carton × 2 Set		MC4 Plug × 4 Sets	585W Photovoltaic Modules × (8~28)	Photovoltaic Wire × 1 Roll	Internal Wiring × 1 Roll
• 220V/19.5kW 45kWh Packing Carton × 3set		MC4 Plug × 6 Sets	585W Photovoltaic Modules × (12~42)	Photovoltaic Wire × 1 Roll	Internal Wiring × 1 Roll

220V 58.5kW
Integrated System

Standard Solution

220V/6.5kW 15kWh

Single System Solution

I

In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.

In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

Provides reliable power for home essentials (refrigerator, fan, AC), small office environments, emergency lighting, and communication backup.



Front View



Side View



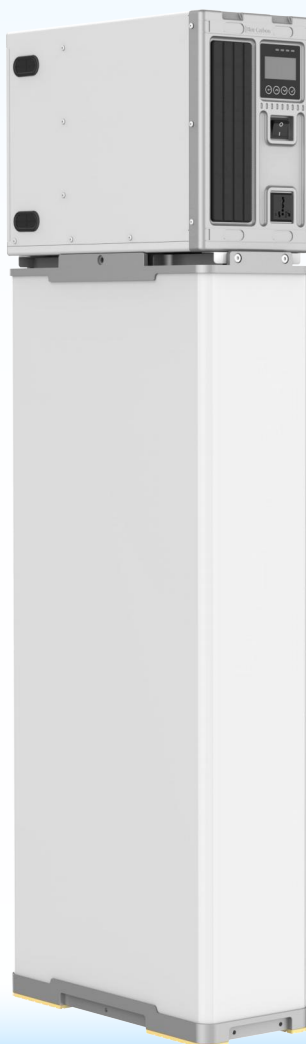
Back View

220V 58.5kW System

Standard Solution

220V/6.5kW 15kWh

System Solution



Battery Parameter

Nominal Capacity	300Ah
Nominal Voltage	51.2V
Electricity(kWh)	15kWh

Inverter AC Output

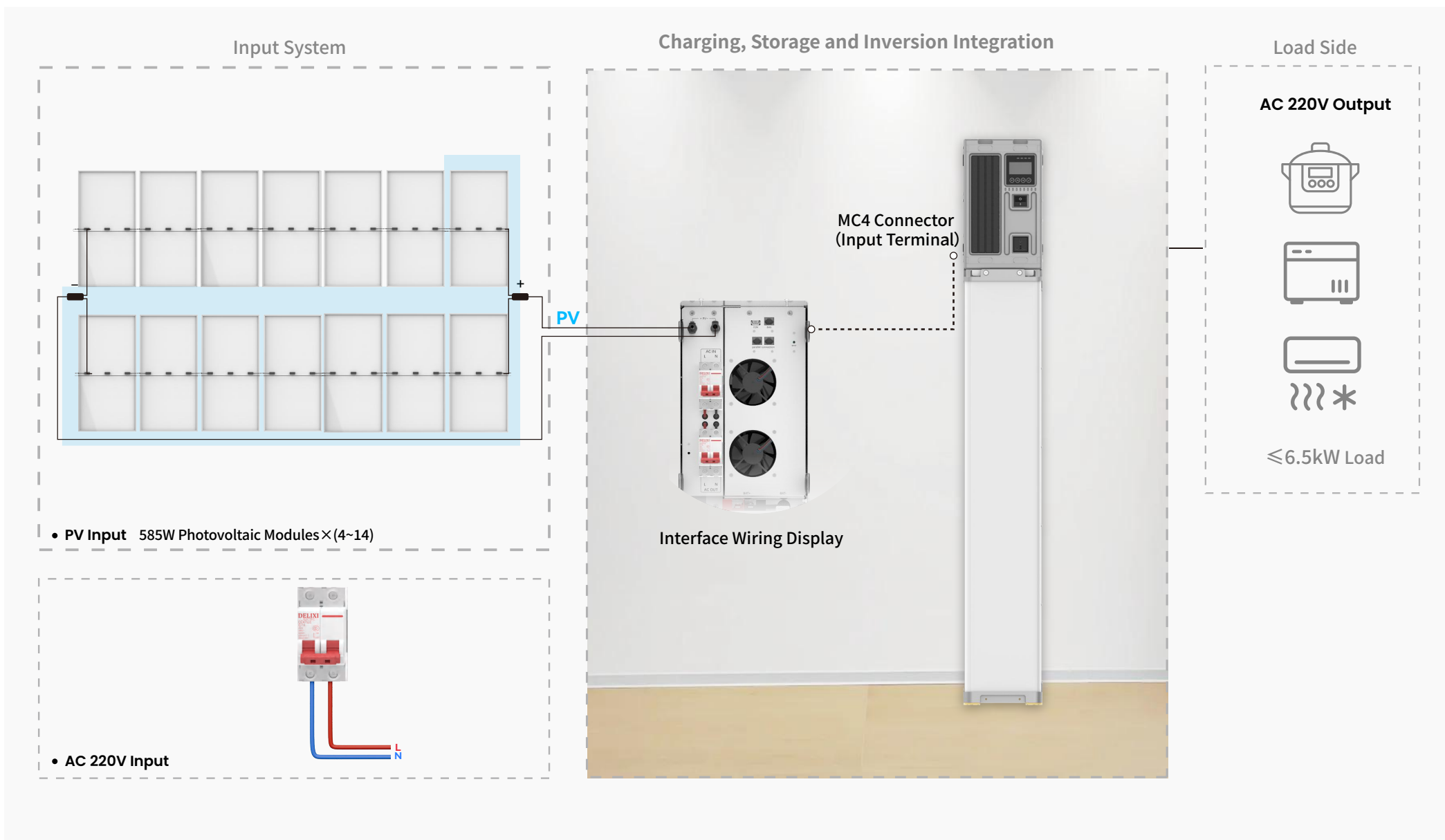
Max Power (kw)	6.5kW
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(normal mode)/ 10(UPS mode)
Wave Form	Pure sine wave
Overload Capacity (Battery Mode)	Previous continuous load < 2.5kW: 15min@ 102%~108% load;1min@ 108%~120% load 10s@>120%load 0r: 1min@ 102%~120% load;10s@>120% load
Max. Efficiency (Battery Mode)	94%@48VDC
Max.Parallel Quantity	9 groups(58.5kW)

Photovoltaic/AC input

Rated Input Voltage (VAC)	208/220/230/240;L+N+PE
Phase Voltage Range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar Charger Type	MPPT
Max PV Input Current / Input Power	27A/9000W
MPPT Range@Operating Voltage (VDC)	60~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC)(A)	100

220V/6.5kW 15kWh

System Connection Display



220V 58.5kW
Integrated System

Standard Solution

220V/13kW 30kWh

Two-in-One

Single System Solution



In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.
In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.
In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.



Front View



Side View



Back View

220V 58.5kW System

Standard Solution

220V/13kW 30kWh

Single System Solution



Battery Parameter

Nominal Capacity	600Ah
Nominal Voltage	51.2V
Electricity(kWh)	30kWh

Inverter AC Output

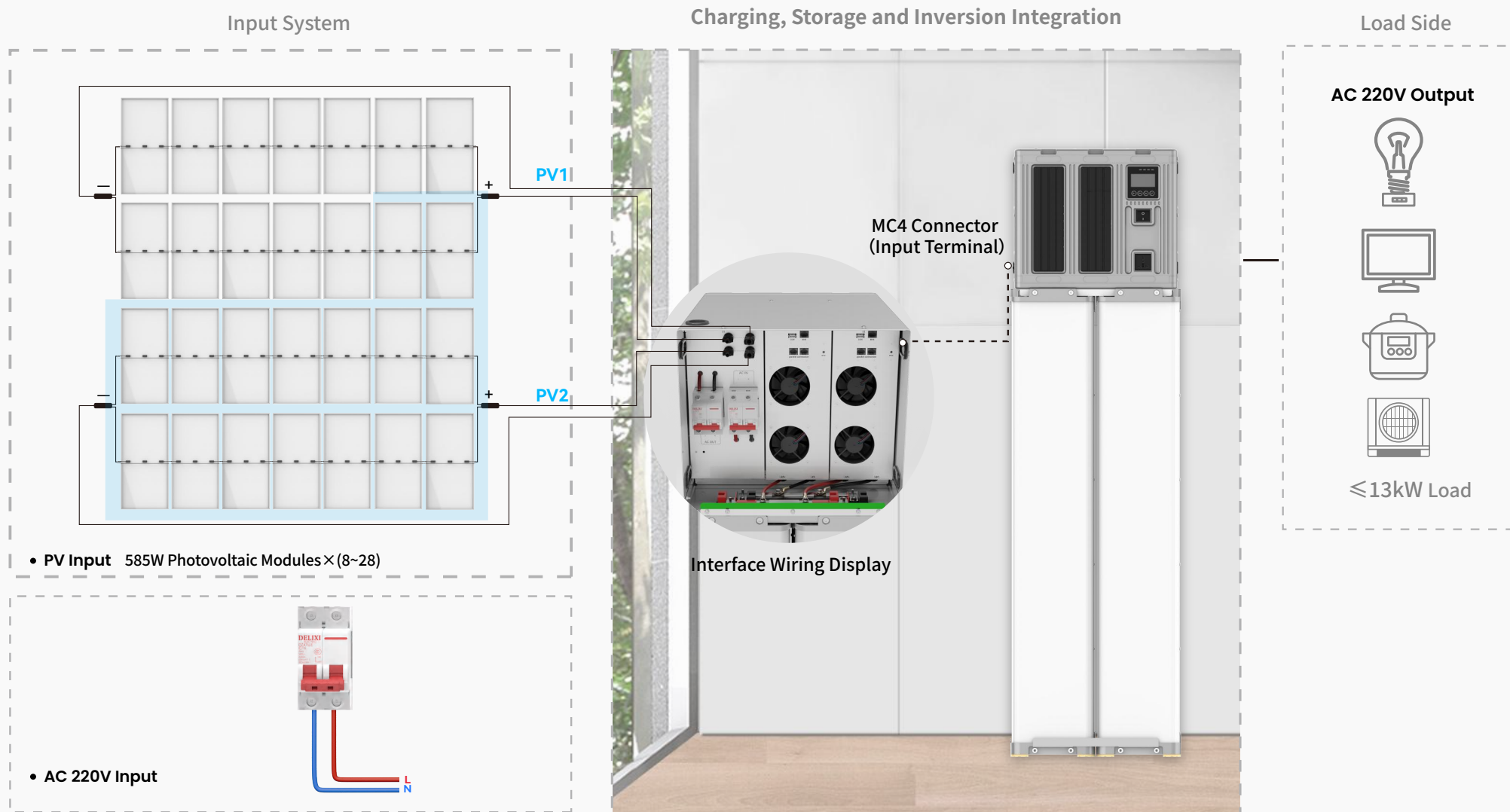
Max Power (kW)	13kW
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(normal mode)/ 10(UPS mode)
Wave Form	Pure sine wave
Overload Capacity (Battery Mode)	Previous continuous load < 2.5kW: 15min@ 102%~108% load;1min@ 108%~120% load 10s@>120%load 0r: 1min@ 102%~120% load;10s@>120% load
Max. Efficiency (Battery Mode)	94%@48VDC
Max.Parallel Quantity	4 groups(52kW)

Photovoltaic/AC input

Rated Input Voltage (VAC)	208/220/230/240;L+N+PE
Phase Voltage Range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar Charger Type	MPPT
Max PV Input Current / Input Power	27A/9000W ×2
MPPT range@operating voltage per unit (VDC)	60~450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current (A)	200
Max AC charge current (A)	200
Max. charge current (PV + AC)(A)	200

220V/13kW 30kWh

System Connection Display



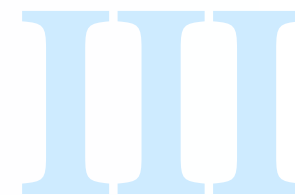
220V 58.5kW
Integrated System

Standard Solution

220V/19.5kW 45kWh

Three-in-One

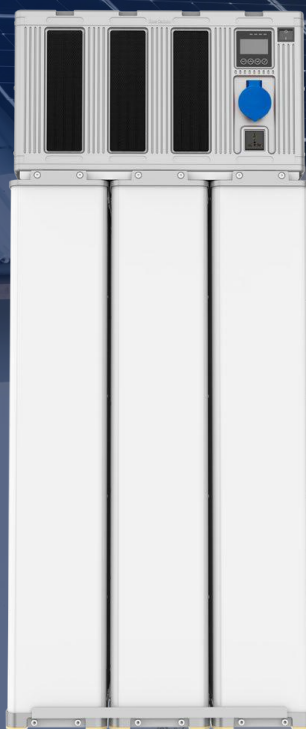
Single System Solution



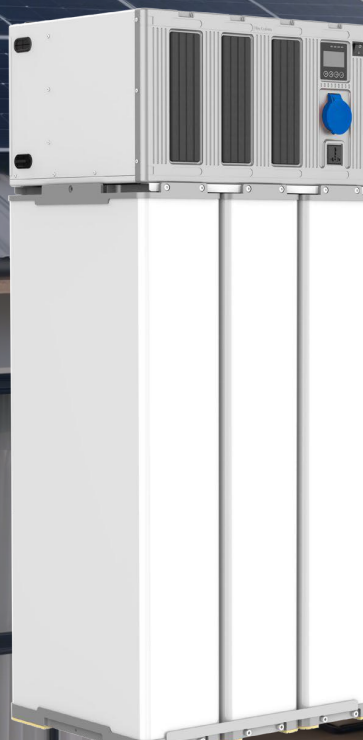
In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.

In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

Widely applicable to residences, villas, homestays, small shops, and charging scenarios, it delivers stable, efficient power support. Easily enabling off-grid power supply, it meets the continuous operation needs of lighting, air conditioning, water heating equipment, and other daily appliances.



Front View



Side View



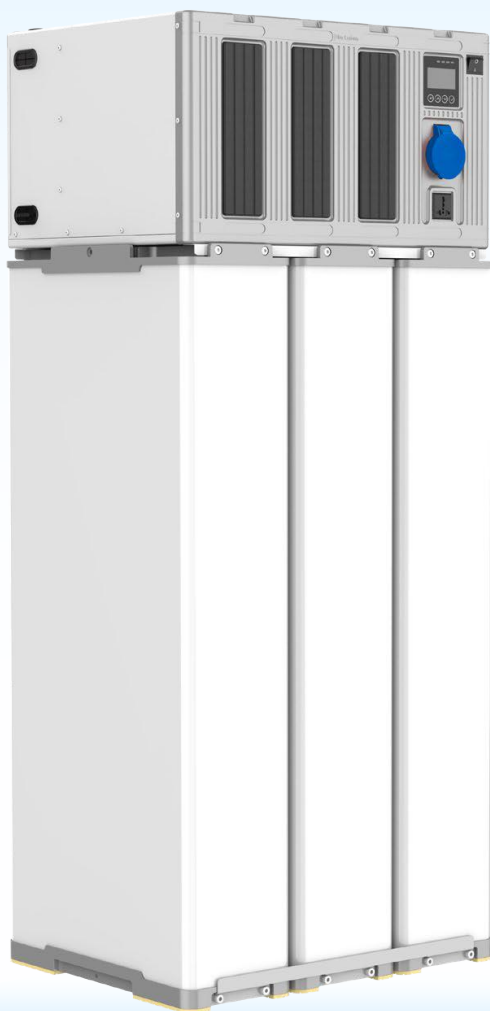
Back View

220V 58.5kW System

Standard Solution

220V/19.5kW 45kWh

Single System Solution



Battery Parameter

Nominal Capacity	900Ah
Nominal Voltage	51.2V
Electricity(kWh)	45kWh

Inverter AC Output

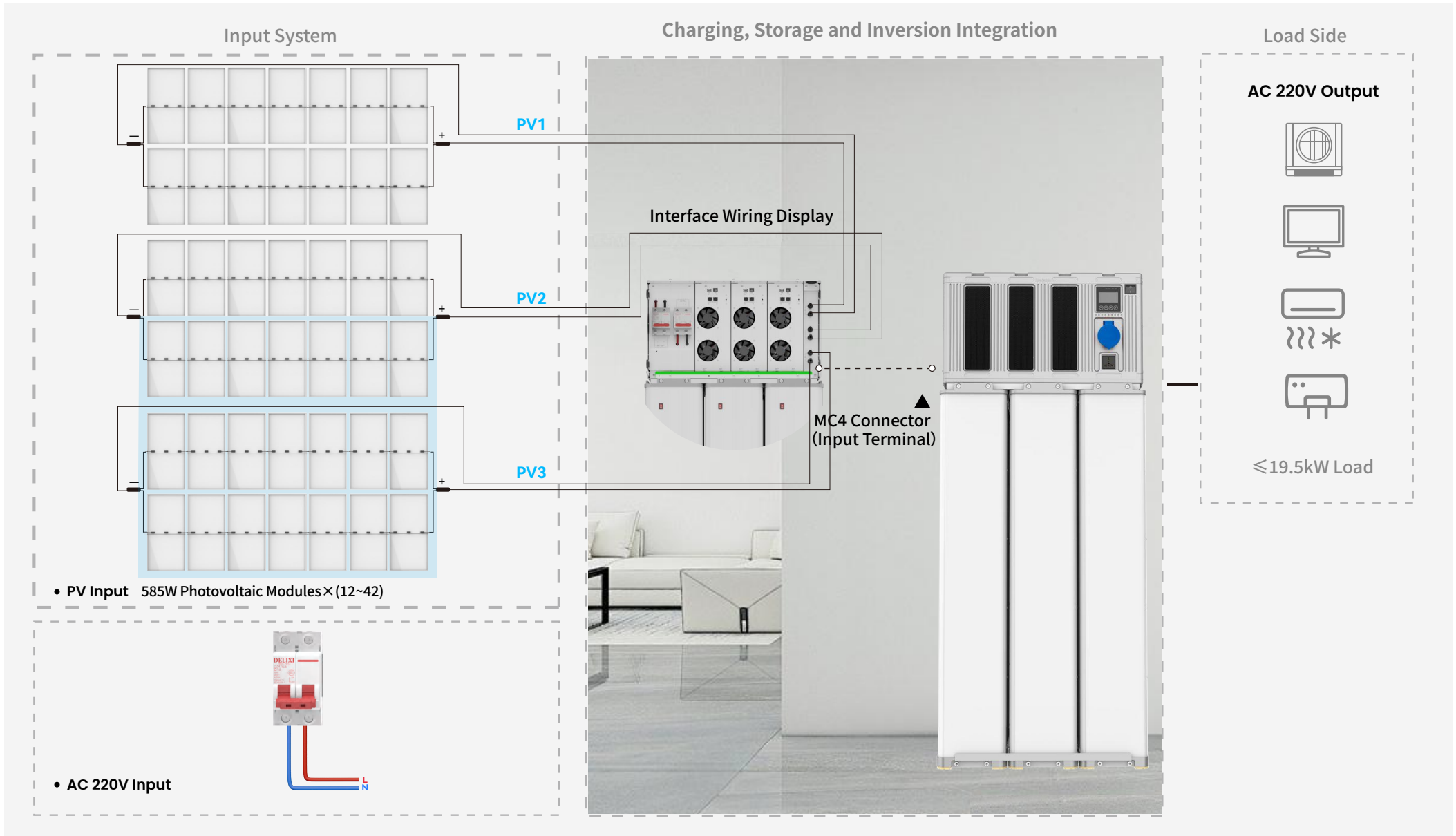
Max Power (kW)	19.5kW
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(normal mode)/ 10(UPS mode)
Wave Form	Pure sine wave
Overload Capacity (Battery Mode)	Previous continuous load < 2.5kW: 15min@ 102%~108% load;1min@ 108%~120% load 10s@>120%load 0r: 1min@ 102%~120% load;10s@>120% load
Max. Efficiency (Battery Mode)	94%@48VDC
Max.Parallel Quantity	3 groups(58.5kW)

Photovoltaic/AC input

Rated Input Voltage (VAC)	208/220/230/240;L+N+PE
Phase Voltage Range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar Charger Type	MPPT
Max PV Input Current / input Power	27A/9000W ×3
MPPT range@operating voltage per unit (VDC)	60~450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current (A)	300
Max AC charge current (A)	300
Max. charge current (PV + AC)(A)	300

220V/19.5kW 45kWh

System Connection Display



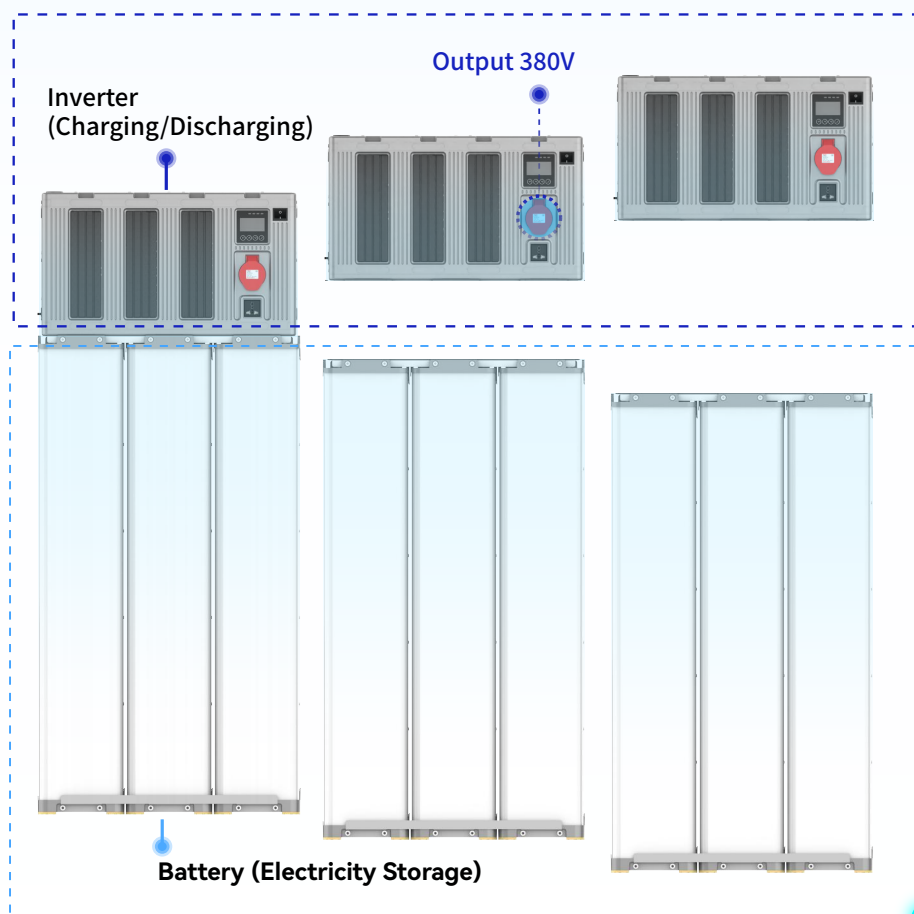


**Charging, Storage and
Inversion Integration**
System Comprehensive Solution

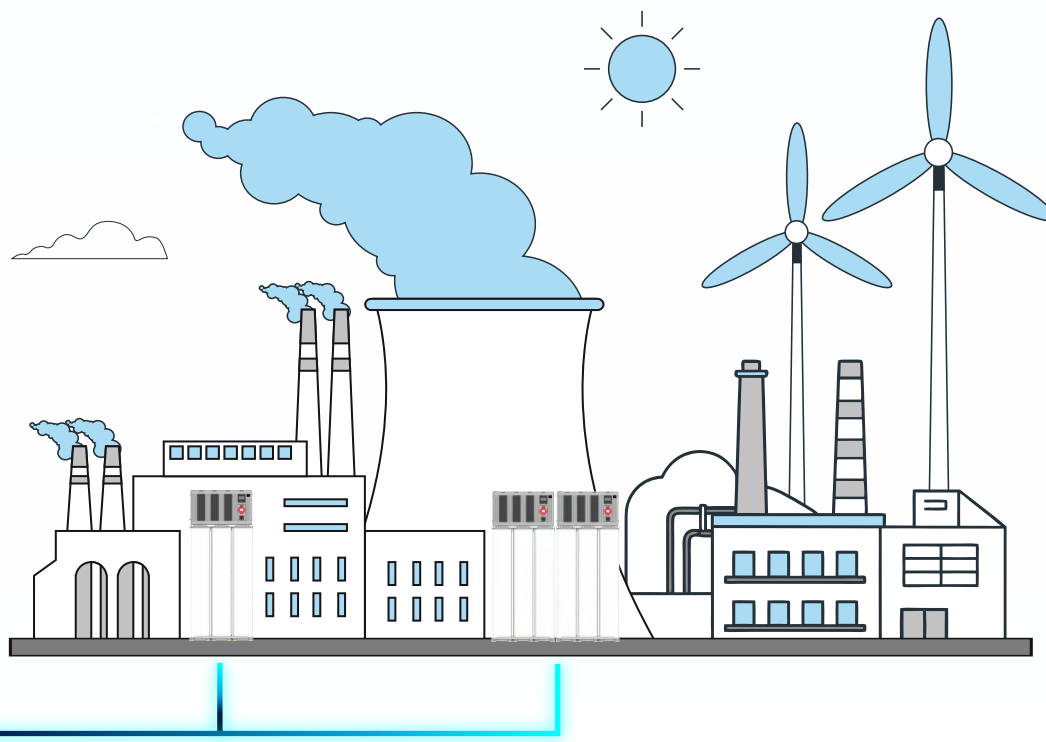
380V Three-phase

380V

System Configuration



Three sets in parallel can output maximum
380V 58.5kW





Charging, Storage and Inversion Integration

System Comprehensive Solution

380V

System Configuration

380V three-phase system solution

Applicable to equipment and systems covering water conservancy facilities, hotels and homestays, commercial electrical appliance transportation, mining machinery, industrial equipment operation, farmland irrigation, sewage treatment, concrete maintenance and various production-related fields.

Electricity(kWh)

45kWh

Inverter rated power

380V/19.5kW

Battery nominal capacity

51.2V/900Ah



Electricity(kWh)

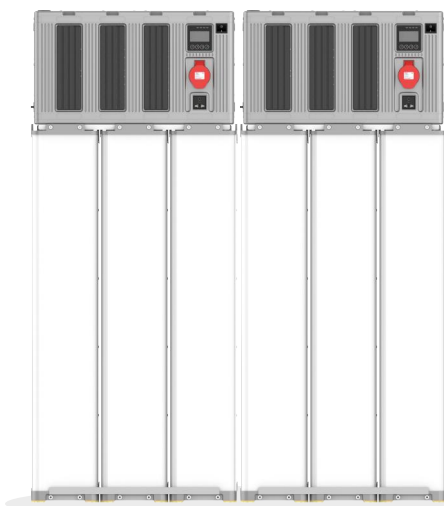
90kWh

Inverter rated power

380V/39kW

Battery nominal capacity

51.2V/1800Ah



Electricity(kWh)

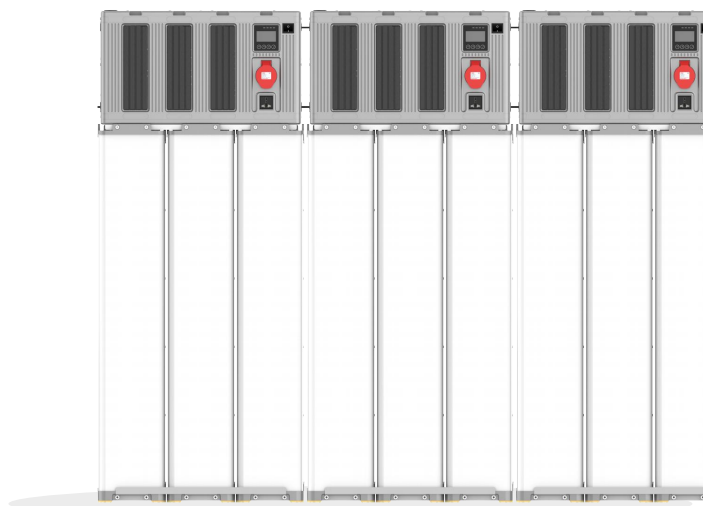
135kWh

Inverter rated power

380V/58.5kW

Battery nominal capacity

51.2V/2700Ah





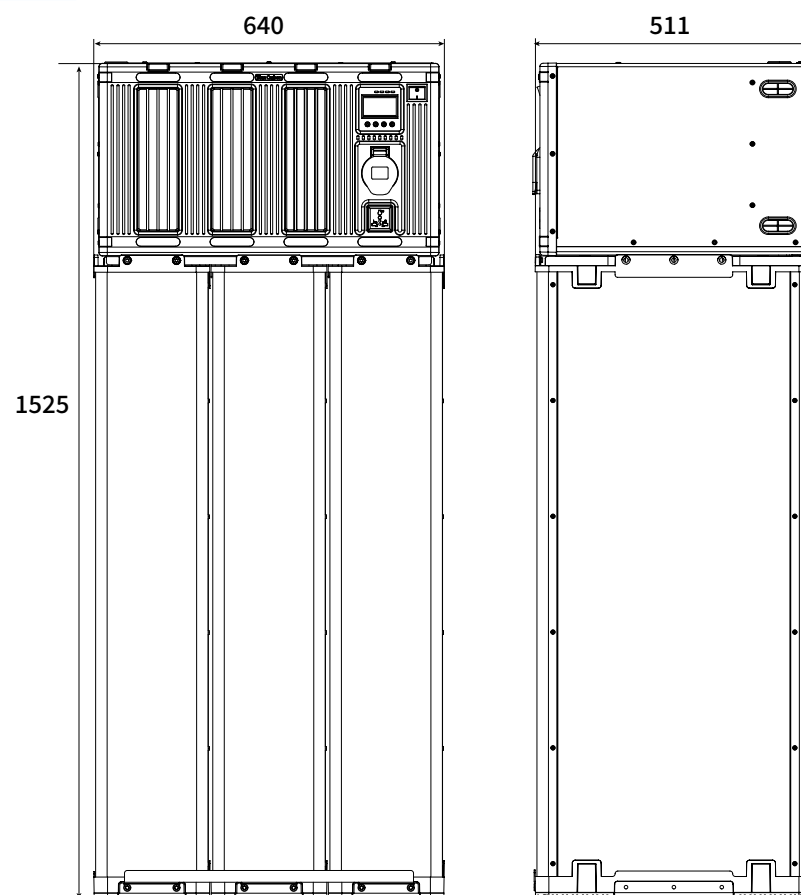
Charging, Storage and Inversion Integration

System Comprehensive Solution

380V

System Configuration

380V three-phase | Product size



380V/19.5kW 45kWh



Charging, Storage and Inversion Integration

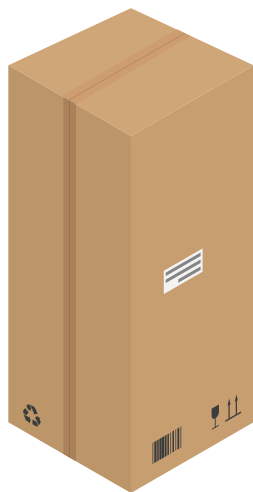
System Comprehensive Solution

380V

System standard
configuration

Standard Components

①



- 380V/19.5kW 45kWh Packing Carton × 3 Set
- 380V/39kW 90kWh Packing Carton × 6 Set
- 380V/58.5kW 135kWh Packing Carton × 9 Set

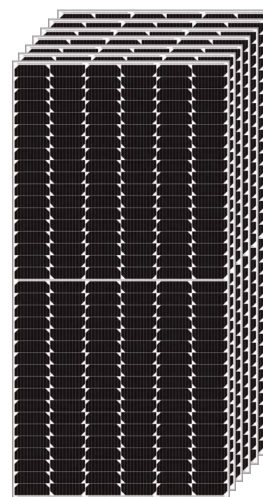
Optional Components

①



MC4 Plug × 6 Sets

②



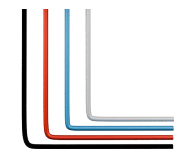
585W Photovoltaic Modules × (12-42)

③



Photovoltaic Wire × 1 Roll

④



Internal Wiring × 1 Roll

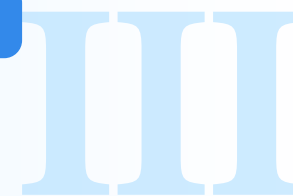
380V 58.5kW
Integrated System

Standard Solution

380V/19.5kW 45kWh

Three-in-One

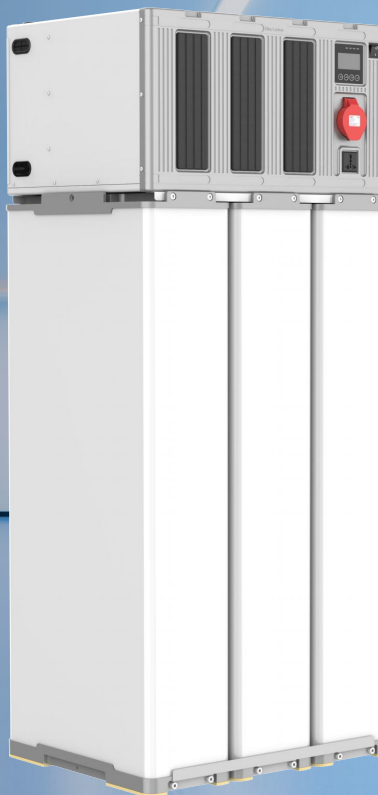
Single System Solution



In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.
In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.
Suitable for the charging stations over 7kW, commercial heating pumps, pressure pumps, circulation pumps, irrigation water pumps, and lighting projects.



Front View



Side View



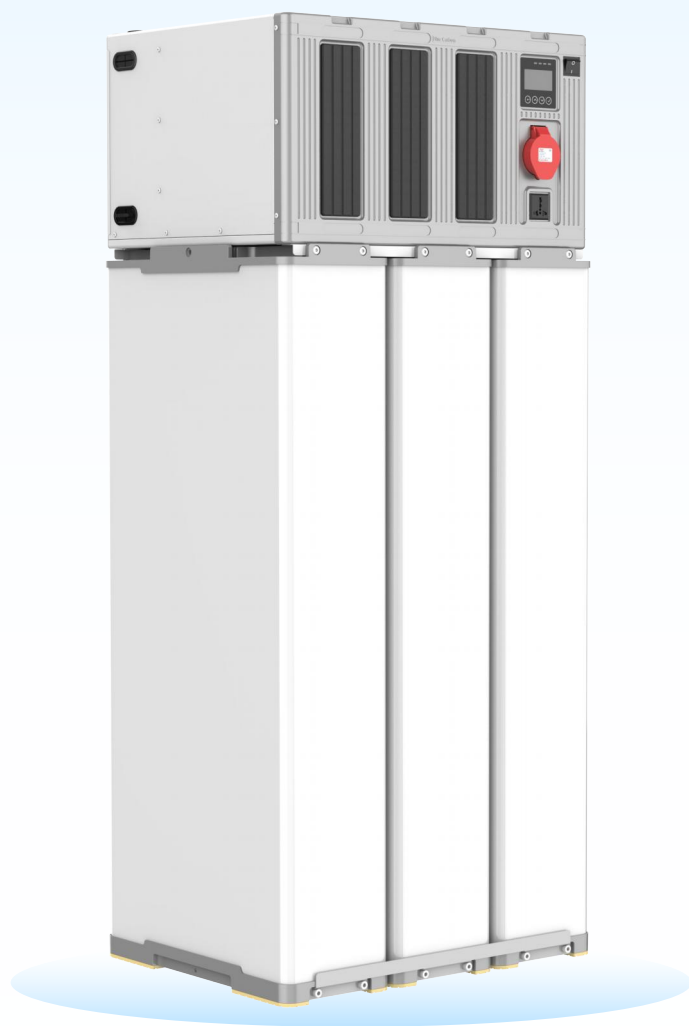
Back View

380V 58.5kW System

Standard Solution

380V/19.5kW 45kWh

Single System Solution



Battery Parameter

Nominal Capacity	900Ah
Nominal Voltage	51.2V
Electricity(kWh)	45kWh

Inverter AC Output

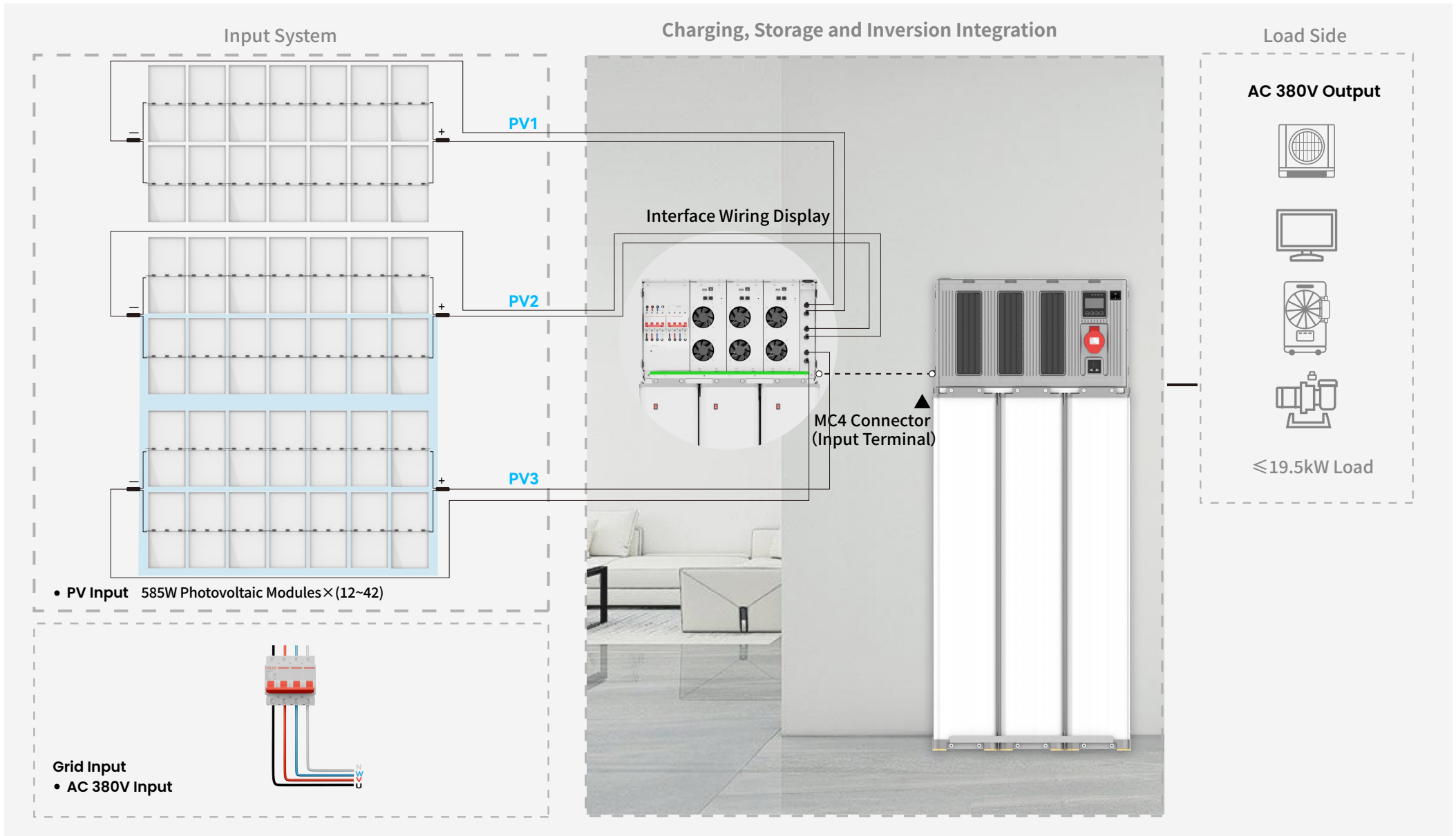
Max Power (kW)	19.5kW
Voltage (VAC)	360/380/400/420
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(normal mode)/ 10(UPS mode)
Wave Form	Pure sine wave
Overload Capacity (Battery Mode)	Previous continuous load < 2.5kW: 15min@ 102%~108% load;1min@ 108%~120% load 10s@>120%load 0r: 1min@ 102%~120% load;10s@>120% load
Max. Efficiency (Battery Mode)	94%@48VDC
Max.Parallel Quantity	3 groups(58.5kW)

Photovoltaic/AC input

Rated Input Voltage (VAC)	360/380/400/420;U+V+W+N+PE
Phase Voltage Range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar Charger Type	MPPT
Max PV Input Current / input Power	27A/9000W ×3
MPPT range@operating voltage per unit (VDC)	60~450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current (A)	300
Max AC charge current (A)	300
Max. charge current (PV + AC)(A)	300

380V/19.5kW 45kWh

System Connection Display



Smart Power Station

Standard Solution

Multiple Voltage Output Options



U V W N

380V three-phase AC

380V/19.5kW



L N

220V single-phase AC

220V/6.5kW

380V 58.5kW
Integrated System

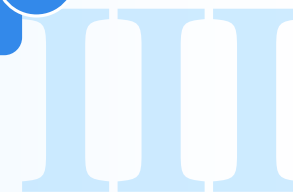
Standard Solution

380V/39kW 90kWh

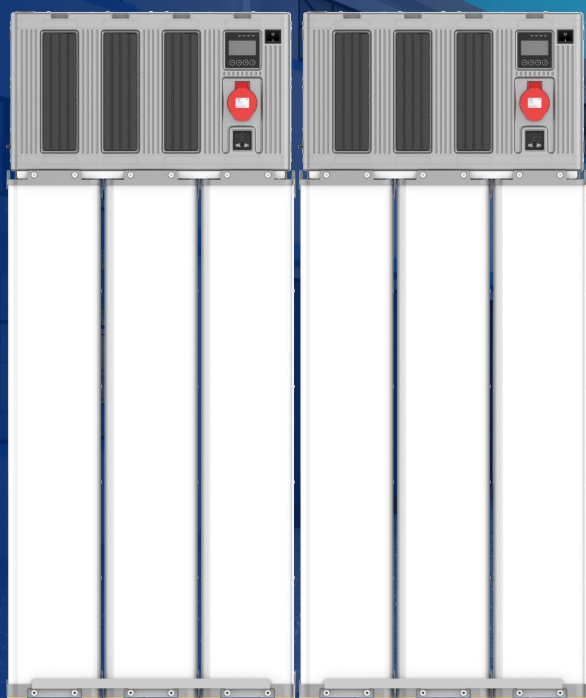
System Solutions for Two Sets

Three-in-One

×2



In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.
In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.
Households, Commercial Appliances: Mid-temperature solar drying systems, motors, heating devices, compressors, concrete curing, etc.



Front View



Side View



Back View

380V 58.5kW System

Standard Solution

380V/39kW 90kWh

System Solutions for Two Sets



Battery Parameter

Nominal Capacity	1800Ah
Nominal Voltage	51.2V
Electricity(kWh)	90kWh



Inverter AC Output

Max Power (kW)	39kW
Voltage (VAC)	360/380/400/420
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(normal mode)/ 10(UPS mode)
Wave Form	Pure sine wave
Overload Capacity (Battery Mode)	Previous continuous load < 2.5kW: 15min@ 102%~108% load;1min@ 108%~120% load 10s@>120%load 0r: 1min@ 102%~120% load;10s@>120% load
Max. Efficiency (Battery Mode)	94%@48VDC



Photovoltaic/AC input

Rated Input Voltage (VAC)	360/380/400/420;U+V+W+N+PE
Phase Voltage Range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar Charger Type	MPPT
Max PV Input Current / input Power	27A/9000W ×6
MPPT range@operating voltage per unit (VDC)	60~450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current (A)	600
Max AC charge current (A)	600
Max. charge current (PV + AC)(A)	600

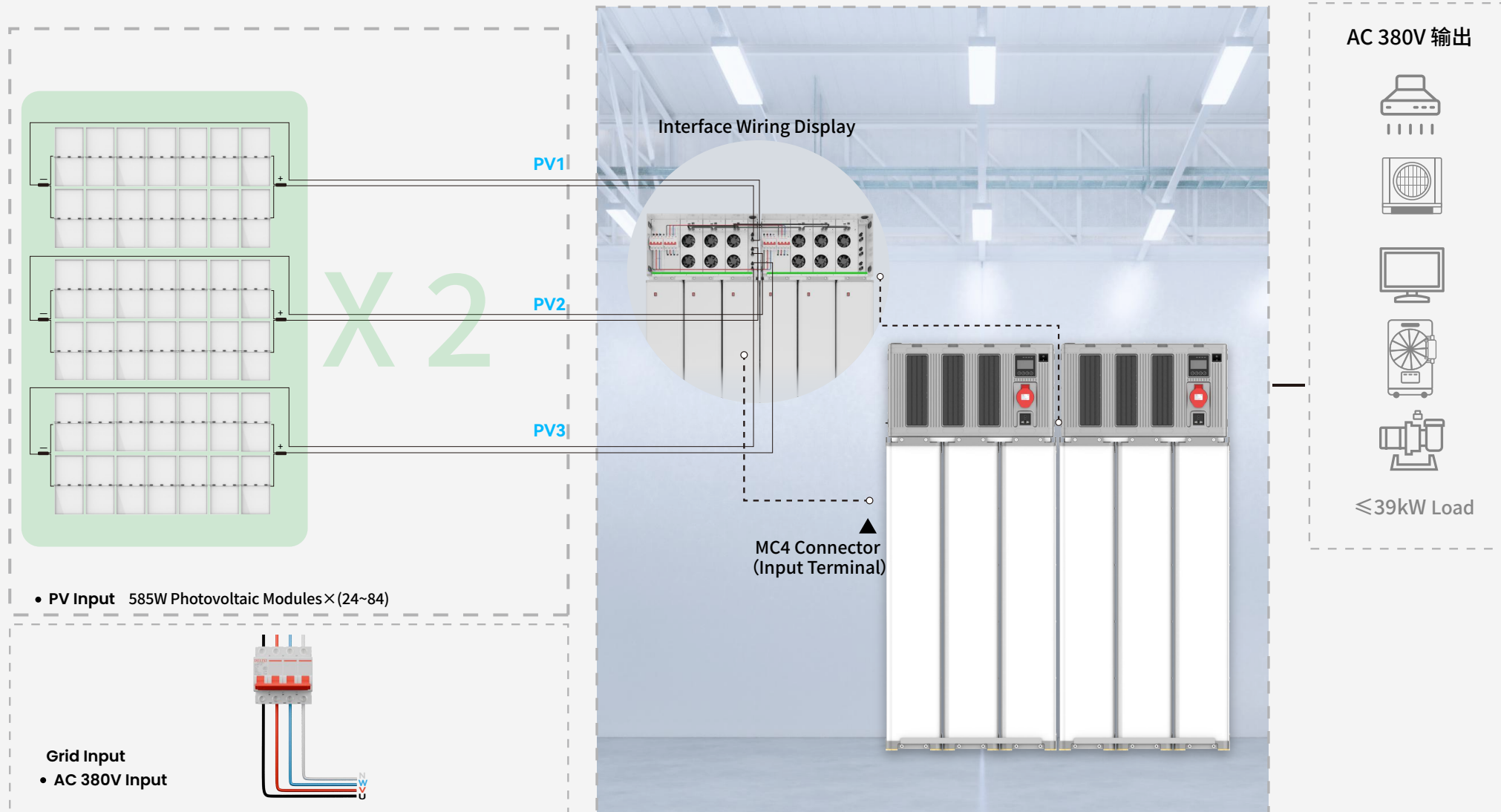
380V/39kW 90kWh

System Connection Display

Input System

Charging, Storage and Inversion Integration

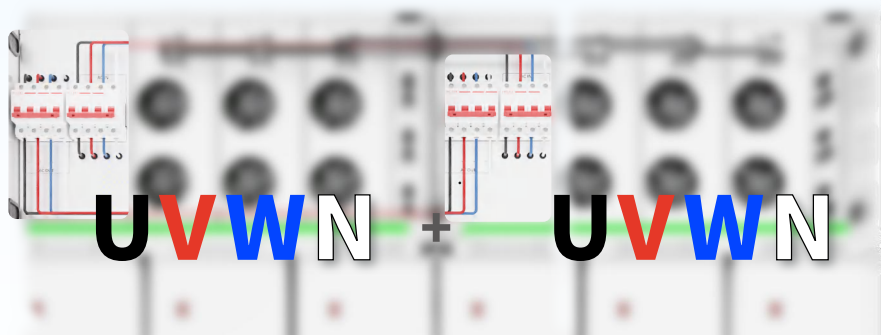
Load Side



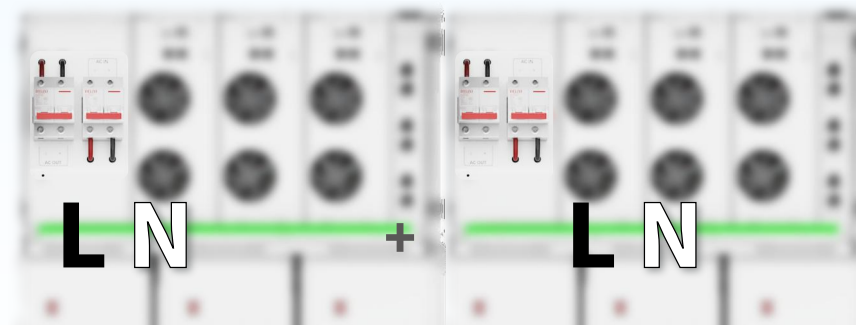
Multiple Voltage Output Options

380V/39kW

220V/13kW



380V Three-phase AC



220V Single-phase AC

380V 58.5kW
Integrated System

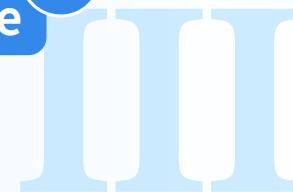
Standard Solution

380V/58.5kW135kWh

System Solutions for Three Sets

Three-in-One

×3



In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs. In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

Water treatment equipment, high-flow and high-lift submersible pumps, field irrigation, sewage treatment, electric boilers, and air-source heat pump systems.



Front view



Back view

380V 58.5kW System

Standard Solution

380V/58.5kW 135kWh

System Solutions for Three Sets



Battery Parameter

Nominal Capacity	2700Ah
Nominal Voltage	51.2V
Electricity(kWh)	135kWh

Inverter AC Output

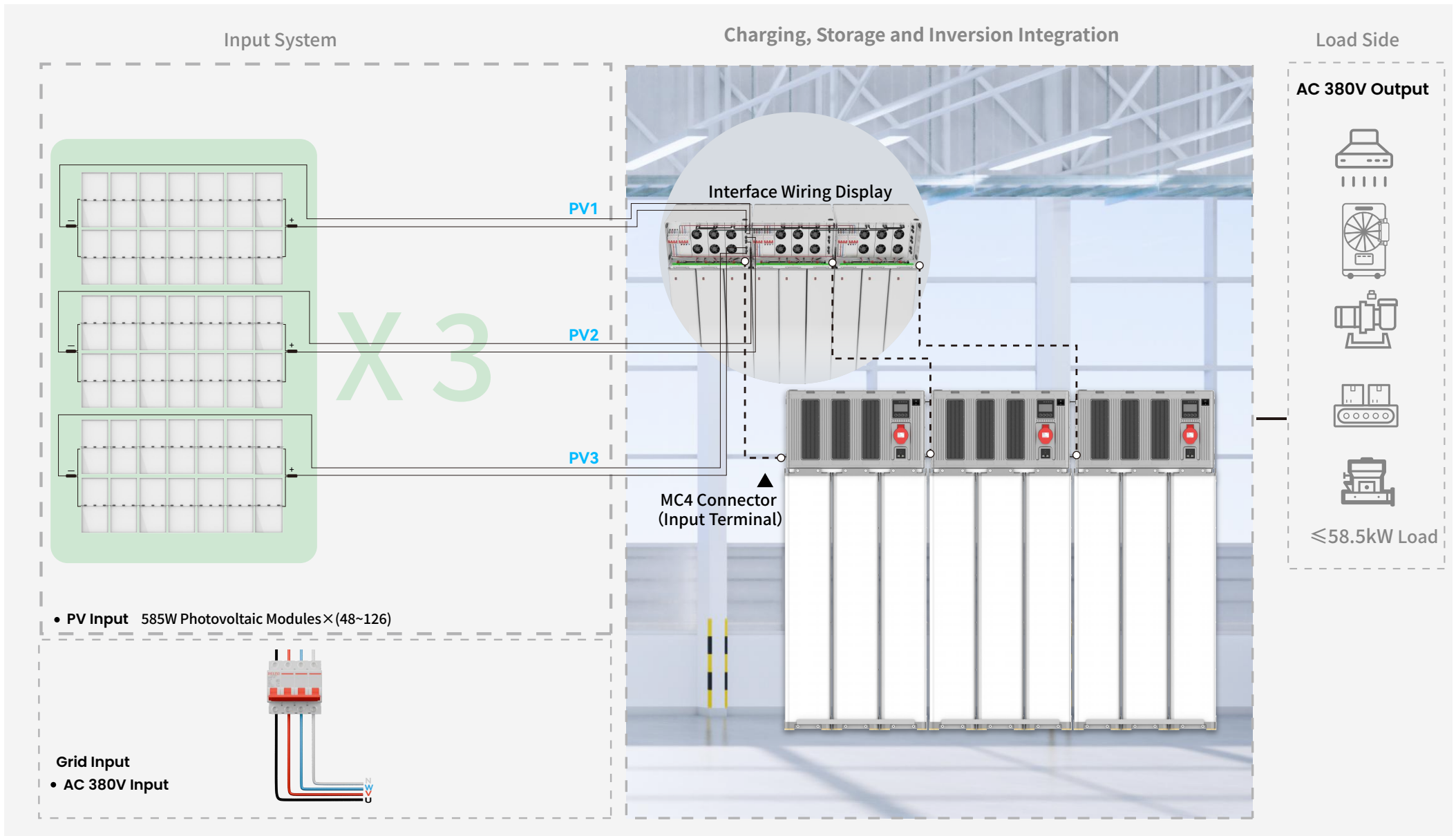
Max Power (kW)	58.5kW
Voltage (VAC)	360/380/400/420
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(normal mode)/ 10(UPS mode)
Wave Form	Pure sine wave
Overload Capacity (Battery Mode)	Previous continuous load < 2.5kW: 15min@ 102%~108% load;1min@ 108%~120% load 10s@>120%load 0r: 1min@ 102%~120% load;10s@>120% load
Max. Efficiency (Battery Mode)	94%@48VDC

Photovoltaic/AC input

Rated Input Voltage (VAC)	360/380/400/420;U+V+W+N+PE
Phase Voltage Range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar Charger Type	MPPT
Max PV Input Current / input Power	27A/9000W ×9
MPPT range@operating voltage per unit (VDC)	60~450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current (A)	900
Max AC charge current (A)	900
Max. charge current (PV + AC)(A)	900

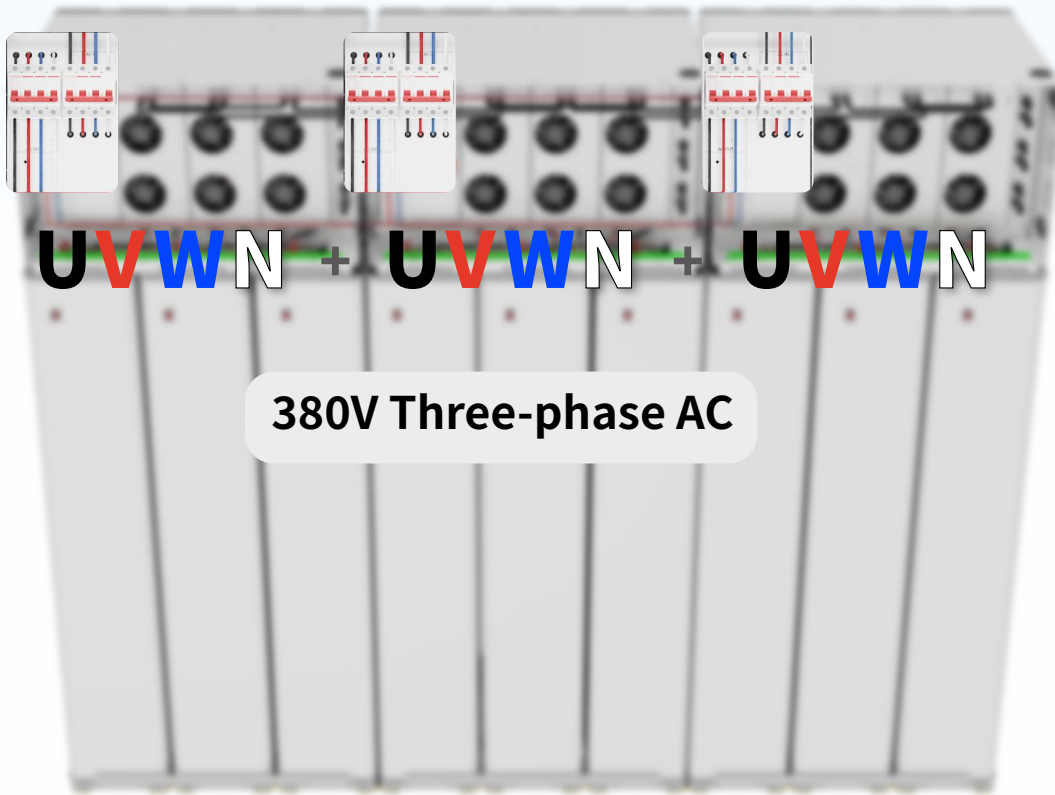
380V/58.5kW 135kWh

System Connection Display

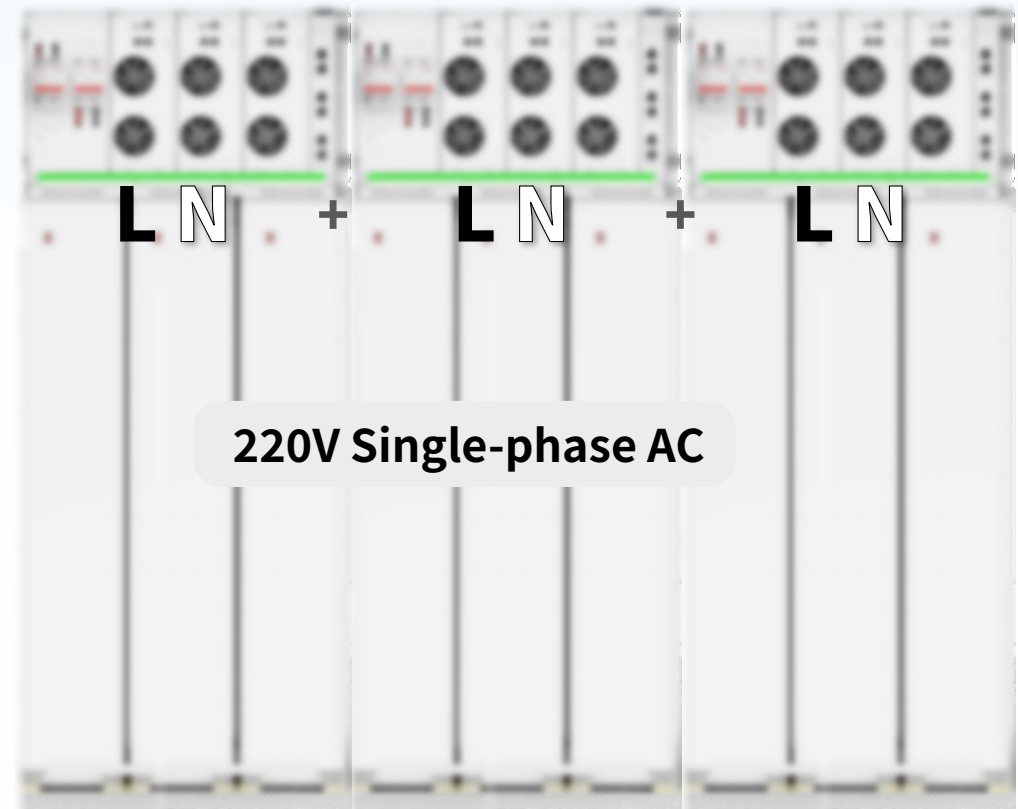


Multiple Voltage Output Options

380V/58.5kW



220V/19.5kW



Empowering Energy Freedom with Sunshine.



Smart Power Station

Charging, Storage and Inversion
Integration System