傲强集团

BEIJING YI JIA INTERNATIONAL TRADE CO. LTD

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BEIJING YI JIA INTERNATIONAL TRADE CO. LTD

COMANY PROFILE

Beijing Yi Jia International Trade Co., Ltd. is a business providing a one-stop smart energy solution, a complete set of home energy storage configurations, solar appliances, and commercial energy storage.

One-stop service for R&D, production, sales, and installation of industrial photovoltaic and energy storage. The high-quality products and outstanding customer service has helped the organization gain a global sales network reaching Asia, South America, Europe, and Africa, and it is rapidly growing.

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BEIJING YI JIA INTERNATIONAL TRADE CO. LTD

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HOUSEHOLD OFF GRID PHOTOVOLTAIC ENERGY STORAGE

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1. WORKING PRINCIPLE

Photovoltaic inverters realize DC-to-AC conversion through a series of power electronic devices and conversion circuits. This process involves two main stages:

RECTIFICATION STAGE:

The DC power generated by the PV panels is input to the DC side, where it is filtered and stabilized.

INVERTER STAGE:

The inverter switch converts DC into AC power with a frequency voltage that meet the requirements of power grid.

2. TYPE

The inverters can be divided into the following types according to the type of connected panels, installation environment, and application scenarios:

CENTRALIZED INVERTER:

Suitable for large photovoltaic power stations. Multiple PV panels are connected in series & parallel to a central inverter.

STRING INVERTER:

Suitable for series of strings composed of multiple photovoltaic panels, and each string connected to inverter.

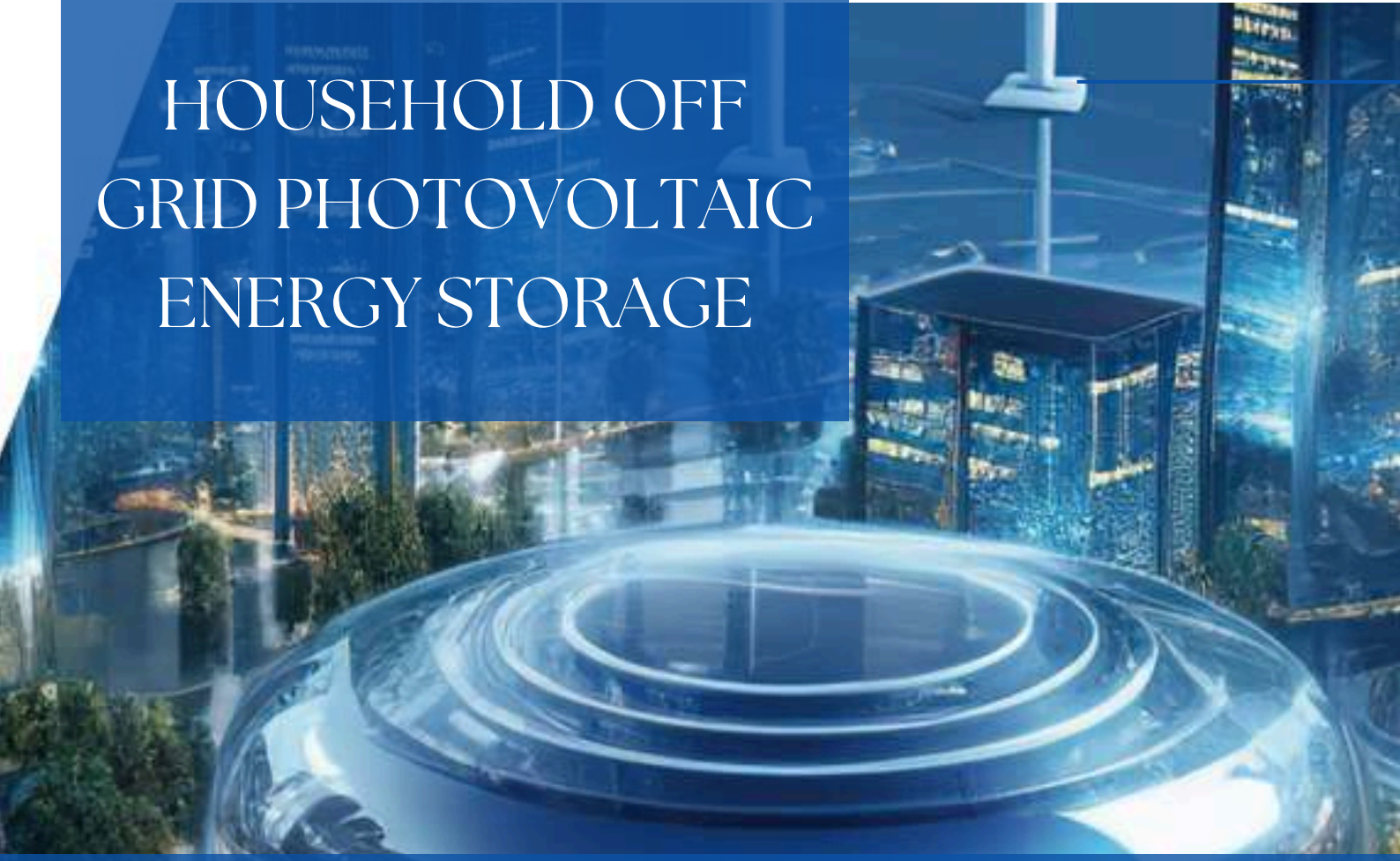
MICROINVERTER:

Each PV panel is equipped with a microinverter, suitable for the optimization of small PV systems or single PV panels.

POWER OPTIMIZER:

Used in conjunction with string inverters, it is installed next to group of PV panels to optimize output power.

HOUSEHOLD OFF GRID PHOTOVOLTAIC ENERGY STORAGE



3. KEY FEATURES

MAXIMUM POWER POINT TRACKING (MPPT):

The inverter tracks the maximum power point of the PV panel in real time through MPPT algorithm to maximize energy output.

EFFICIENCY:

The efficiency of the inverter directly affects the power generation efficiency of the entire PV system. A high-efficiency inverter can reduce energy loss.

GRID COMPATIBILITY:

Inverter needs to be synchronized with the voltage, frequency, & phase of the grid so it can be disconnected in time when the grid fails to ensure the power supply.

SAFETY PROTECTION:

Overload protection, short circuit protection, overheating protection, etc., to ensure safety of inverter and users.

MONITORING AND COMMUNICATION:

Modern inverters usually have remote monitoring and data transmission functions to facilitate users to understand the operating status of the system.

LIFESPAN AND RELIABILITY:

The lifespan and reliability of an inverter are indicators to measure its performance & are usually related to the use environment, manufacturing quality, and design.

4. APPLICATION

PV inverters are used in residential & commercial buildings, industrial facilities, & large PV power stations.

5. MAINTENANCE

To ensure the long-term, stable operation of inverters, regular inspection & maintenance are necessary. This includes checking cooling systems and electrical connections, software updates and cleaning, etc. Proper maintenance can extend the life of inverter and keep it running efficiently.

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SOLAR INVERTER

SOLAR INVERTER
AQ SERIES

Specification	
Rated Power	3000W - 5500W
Input	
Input Format	L + N + PE
Rated Input Voltage	208/ 220/ 230/ 240 VAC
Voltage Range	154 - 264 VAC 3V
	185 - 264 VAC 3V
Frequency Range	50/ 60 Hz ± 0.1%
Output	
Output Voltage	208V – 240 VAC ± 5%
Efficiency	>94%
Output Frequengy	50/ 60 Hz ± 0.1%
Solar Charging	
PV Charging Method	MPPT
PV Maximum Input Power	3000W/ 4000W/ 5500W
PV Input Voltage	120 – 500 VDC
Operating Environment	
Operating Environment Temperature	0° C ~ 40° C
Storage Temperature	-15° C ~ 60° C
Noise	<50 dB

傲强集团

SOLAR INVERTER
GD SERIES

Specification	
Rated Power	3000W - 5500W
Input	
Input Format	L + N + PE
Rated Input Voltage	208/ 220/ 230/ 240 VAC
Voltage Range	154 ~ 264 VAC 3V
	185 ~ 264 VAC 3V
Solar Charging	
PV Charging Method	MPPT
PV Maximum Input Power	3000W/ 4000W/ 5500W
PV Input Voltage	120 – 500 VDC
PV Maximum Charging Current	100A
Operating Environment	
Operating Environment Temperature	0° C ~ 40° C
Storage Temperature	15° C ~ 60° C
Noise	<50 dB
Dimensions	
Dimensions	399 * 285 * 118 mm
Package Dimensions	495 * 312 * 125 mm

SOLAR INVERTER

Specification	
Rated Power	800W - 10000W
Input	
Power Input AC	220 VAC
Input Voltage Range	154 ~ 275 VAC 5V
Input Frequency	50/ 60 Hz 5%
Output	
Rated Output Voltage	1000 VA 800W
Output Voltage Under Inverter	220 VAC 3%
Output Frequency Under Inverter	50 Hz/ 60 Hz 1%
Output Waveform Under Inverter	Sine Wave
Battery	
Maximum Solar Charging Current	30A/ 60A
Battery Voltage	12/ 24/ 48 VCD/ 48 VDC
Battery Charging Voltage	13.74 VCD/ 27 VCD/ 54 VCD
Battery Type	External Lead-Acid Battery
	Gel Battery
	Water Battery
	Lithium Battery
Solar Charging	
Solar Input Voltage Range	12V: PWM 15V ~ 30 VDC
	24V: PWM 30V ~ 60 VDC
Largest Photovoltaic Array	12V: 400W
	24V: 800W

SOLAR INVERTER
UD SERIES

SOLAR INVERTER

SOLAR INVERTER
UD SERIES

Specification	
Rated Power	4800W - 10000W
Input	
Input Capacity	6000 VAC
Related Input Voltage	220 VAC
Voltage Range	153 - 265 VAC
	185 - 264 VAC
Input Frequency	50/ 60 Hz Adaptive
Output	
Output Rated Power	4800W/ 10000W
Load Peak Ratio	3:1
Output Voltage Regulation	10%
Conversion Time	≤10 ms
Waveform	Pure Sine Wave
Battery	
Battery Voltage	48 VDC
Solar Charging	
Maximum Mains Charging Current	120A
Lock Voltage	40V - 42V
Maximum PV Open Circuit Voltage	6100W
Operating Environment	
Noise	<55 dB

Specification	
Rated Power	3000W - 10000W
Input	
Input Format	L + N + PE
Rated Input Voltage	208/ 220/ 230/ 240 VAC
Voltage Range	154 - 264 VAC 3V
	185 - 264 VAC 3V
Frequency Range	50/ 60 Hz
Output	
Output Rated Power	3000W
Output Voltage	208/ 220/ 230 VAC 5%
Output Frequency	50 HZ/ 60 Hz 0.1%
Peak Power	6000 VAC
Rated Voltage	24 VDC
Solar Charging	
Constant Charging Voltage	28.2 VDC
Float Charge Voltage	27 VDC
Dimensions	
Dimensions	495 * 312 * 125 mm
Net Weight	7.5 kg

SOLAR INVERTER
BA SERIES

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SOLAR INVERTER
UD SERIES

Specification	
Rated Power	1000W - 1600W
Input	
Rated Input Voltage	220 VAC/ 110 VAC
Voltage Range	220V Model: 154 - 264 VAC 3V
Frequency Range	50/ 60 Hz 5%
Output	
Output Rated Power	1000W
Output Voltage Under Inverter	220 VAC 10%
Output Frequency Under Inverter	50 Hz/ 60 Hz 1%
Battery	
Battery Voltage	12 VDC/ 24 VDC
Battery Charging Voltage	13.74 VCD/ 27.4 VCD
Solar Charging	
Maximum PV Array Power	12V: 800W
	24V: 1600W
PV Input Voltage Range	12V: PWM 15V ~ 30 VDC
Maximum Solar Charging Current	60A
Maximum AC Charging Current	25A/ 13A
Operating Environment	
Operating Temperature	0° C ~ 40° C
Dimensions	
Dimensions	352 * 235 * 110 mm

SOLAR INVERTER

Specification	
Rated Power	400W - 4000W
Input	
Power Input	220 VAC/ 110 VAC
Rated Input Voltage	220V Model: 145 - 275 VAC 3V
Input Frequency	50/ 60 Hz 5%
Output	
Rated Output Power	400W
Output Voltage Under Inverter	220 VAC 10%
Output Frequency Under Inverter	50 Hz/ 60 Hz 1%
Conversion Time	≤10 ms
Battery	
Batttery Voltage	12 VDC/ 24 VDC
Battery Charging Voltage	13.75 DC
Battery Charging Voltage Range	150 - 280 VAC
Operating Temperature	
Operating Temperature	0° C ~ 40° C
Storage Temperature	-15° C ~ 60° C
Dimensions	
Dimensions	300 * 144 * 213 mm
Package Dimensions	390 * 225 * 318 mm

SOLAR INVERTER
HB SERIES

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MPPT SOLAR CHARGER

- 12/ 24/ 36/ 48V Adaptive
- Parameters can be Adjusted
- Can be Connected to Battery
- Optional Support for WIFI/GPRS
- Three-Stage Intelligent Charging

Specifications			
System Voltage	12/ 24/ 36/ 48V	Rated Current	40A - 100A
Battery Type Used	Lead-Acid Battery	Charging Method	Constant Current
	Lithium Battery		Constant Voltage
	Water Battery		Floating
Open Circuit Maximum Voltage	DC 150V - DC 250V	Maximum Power Voltage	12V - 48V
Rated Charging Power	12V - 48V	Load Voltage	Same Battery Voltage
Rated Load Current	40A	Heat Dissipation Method	Cold Wind
Temperature Compensation Coefficient	-3mv/ °C/ 2V	Storage Temperature	-40° C - 70° C
Noise	⩽ 50 dB	Humidity	0 - 90% RH

LITHIUM BATTERY LB SERIES

- Safe and Reliable
- CE and UL Certified
- Built-In Automatic Surface Flame Device Detector
- Calculates Battery Pack Capacity and Cycle Time
- Equipped with Weak Current Switch and Sleep & Wake Function

Specifications			
Battery Voltage	51.2V - 25.6V	Battery Capacity	100V - 300V
Maximum Charging Voltage	58.4V - 29.2V	Maximum Charging Current	50A
Maximum Discharge Current	100A	Working Voltage Range	44V - 58.4V
Communication Interface	Standard RS232/ RS485/ CAN	Discharge Temperature Range	-20° C – 60° C
Storage Evironment	-40° C - 55° C @ 60% + 25%	Structure	Wall-Mounted
LCD Display	Display Battery Capacity	LED Indicator Light	Display Battery Capacity
	Output Voltage		Display Operation
	Current		Display Fault

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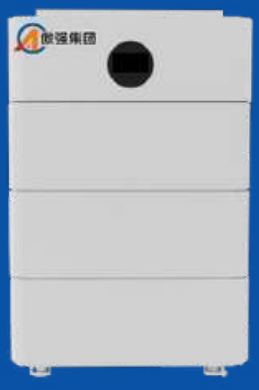
ENERGY STORAGE UNIT

ENERGY STORAGE INTEGRATED MACHINE (1)

Specifications			
Rated Power	5 kW (Power 1.5 kW - 11 kW)	Rated Voltage	51.2V
Battery Rated Capacity	100Ah	Continuous Discharge Current	100A
Maximum Discharge Current	150A < 35	Standard Charging Current	50A
Fast Charging Current	100A	Battery Type	Lithium Iron Phosphate
Protection Level	IP21	Installation Method	Landing
Implementation Standards	CE/ RCM/ CEC/ VDE2510-50/ IEC62619 IEC60730/ UN38.3	Operating Temperature	Charging 0° C - 45° C
			Discharging -20° C - 60° C

ENERGY STORAGE INTEGRATED MACHINE (2)



Specifications			
Rated Power	10 kW (Power 1.5 kW - 11 kW)	Rated Voltage	51.2V
Battery Rated Capacity	100Ah	Continuous Discharge Current	100A
Maximum Discharge Current	150A < 35	Standard Charging Current	50A
Fast Charging Current	100A	Battery Type	Lithium Iron Phosphate
Refrigeration Method	Cold Wind	Installation Method	Landing
Operating Temperature	Charging 0-45° C	Working Humidity	5% - 95%
	Discharging -20-60° C	Protection Level	IP21

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ENERGY STORAGE INTEGRATED MACHINE (3)

Specifications			
Rated Power	15 kW (Power 1.5 kW - 11 kW)	Rated Voltage	51.2V
Battery Rated Capacity	100Ah	Continuous Discharge Current	100A
Maximum Discharge Current	150A < 35	Standard Charging Current	50A
Fast Charging Current	100A	Battery Type	Lithium Iron Phosphate
Protection Level	IP21	Installation Method	Landing
Implementation Standards	CE/ RCM/ CEC/ VDE2510-50/ IEC62619 IEC60730/ UN38.3	Operating Temperature	Charging 0° C - 45° C
			Discharging -20° C - 60° C

ENERGY STORAGE UNIT

ENERGY STORAGE INTEGRATED MACHINE (4)

Specifications			
Rated Power	20 kW (Power 1.5 kW - 11 kW)	Rated Voltage	51.2V
Battery Rated Capacity	100Ah	Continuous Discharge Current	100A
Maximum Discharge Current	150A < 35	Standard Charging Current	50A
Fast Charging Current	100A	Battery Type	Lithium Iron Phosphate
Protection Level	IP21	Installation Method	Landing
Operating Temperature	Charging 0-45° C	Working Humidity	5% - 95%
	Discharging -20-60° C		

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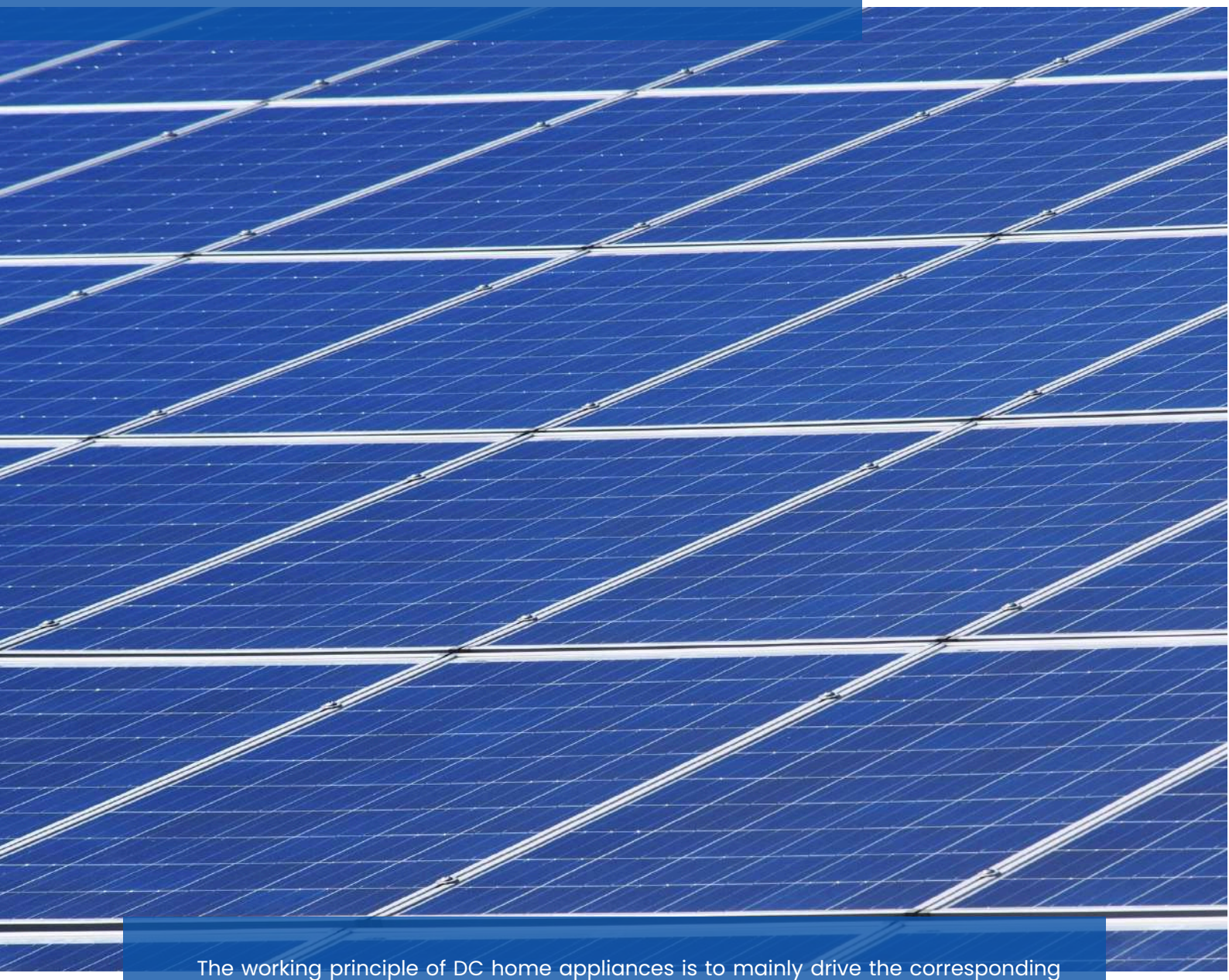
OUTDOOR SOLAR EQUIPMENT



The working principle of DC home appliances is to mainly drive the corresponding electrical equipment through DC power. DC home appliances use DC speed regulation technology, which is especially used in high-end home appliances to achieve more precise and efficient energy control.

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LD-X4

Specification			
Solar Panel	4 W/ 6V 3 m Line	Solar Size	254 * 140 * 15 mm
Battery Capacity	3.7V/ 3600 MAh	USB Output	1 Pcs * 5V/ 1 A
DC Output	4 Pcs * 3.7V/ 1 A	LED Light	Plastic 3 W/ 3.7V * 2 Pcs 3 m Cable
Working Life	4 Hours	Charging Time	6 Hours

LD-X5

Specification			
Solar Panel	6 W/ 6V 3 m Line	Solar Size	270 * 180 * 17 mm
Battery Capacity	3.7V/ 7500 MAh	USB Output	2 Pcs * 5V/ 1 A
DC Output	4 Pcs * 3.7V/ 1 A	LED Light	Plastic 3 W/ 3.7V * 2 Pcs 3 m Cable
Working Life	4 Hours	Charging Time	6 - 9 Hours

SOLAR PANEL CHARGING LIGHT

LD-X6

Specification			
Solar Panel	4 W/ 6V 3 m Line	Solar Size	254 * 140 * 15 mm
Battery Capacity	3.7V/ 3600 MAh	USB Output	2 Pcs * 5V/ 1 A
DC Output	4 Pcs * 3.7V/ 1 A	LED Light	Plastic 3 W/ 3.7V * 2 Pcs 3 m Cable
Working Life	4 Hours	Charging Time	6 Hours

LD-1207C

Specification			
Solar Panel	Folding 12 W/ 18V 5 m Cable	Solar Size	270 * 180 * 17 mm * 2
Battery Capacity	Lead-Acid Battery 12V/ 7 Ah	USB Output	2 Pcs * 5V/ 1 A
DC Output	4 Pcs * 12V/ 1 A	LED Light	Aluminum Shell 3 W/ 12V * 2 Pcs 3 m Cable
Working Life	10 - 30 Hours	Charging Time	12 Hours

LD-X3

Specification			
Solar Panel	3 W/ 6V 3 m Line	Solar Size	143 * 236 * 18 mm
Battery Capacity	3.7V/ 3600 MAh	USB Output	2 Pcs * 5V/ 1 A
DC Output	4 Pcs * 3.7V/ 1 A	LED Light	Plastic 3 W/ 3.7V * 2 Pcs 3 m Cable
Working Life	4 Hours	Charging Time	6 Hours

SOLAR PANEL CHARGING LIGHT

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LD-X1

Specification			
Various Output interfaces	USB 5V	A1 Charging Port	LCD Smart Display
Lithium Iron Phosphate Battery	Cycle 500 - 1000	Service Life	More than 2 Years
Smart BMS	Smart Display	Various Charging Methods	Support Photovoltaic, Wind Power, Diesel

OUTDOOR PORTABLE POWER BANK

SF1000 - T800WH

Specification			
AC Output	AC 220V: 1000 W * 2	Mobile Phone Wireless Charging	15 W
Peak Output	AC 220V: 2000 W	LED Lighting	5 W
Solar Voltage	MPPT - 15 - 50V - 30 A (Optional)	Product Size	370 * 205 * 215 mm
AC Charging Power	150 W	Package Size	442 * 260 * 270 mm
AC Charging Time	5 - 6 Hours	Product Weight	8.9 Kg
Lithium Iron Battery	800 WH/ 12V	DC Output	12V 10 A * 2
Colors	Fruit Green, Black Gray	USB Output	5V/ 3 A * 2

SF1000 - S700WH

Specification			
AC Output	AC 220V: 1000 W * 1	Mobile Phone Wireless Charging	15 W
Peak Output	AC 220V: 2000 W	LED Lighting	5 W
Solar Voltage	MPPT - 15 - 50V - 30 A (Optional)	Product Size	280 * 160 * 220 mm
AC Charging Power	150 W	Package Size	330 * 240 * 330 mm
AC Charging Time	5 Hours	Product Weight	7.25 Kg
Ternary Lithium Battery	700 WH/ 12V	DC Output	12V 10 A * 2
Colors	Green, Grass Green	USB Output	5V/ 3 A * 8

SF500 - T398WH

Specification			
AC Output	AC 220V: 500 W * 3	LED Lighting	5 W
Peak Output	AC 220V: 1000 W	Product Size	280 * 160 * 220 mm
Solar Voltage	MPPT - 15 - 50V - 30 A (Optional)	Package Size	330 * 240 * 330 mm
AC Charging Power	75 W	Product Weight	5.46 Kg
AC Charging Time	6 Hours	Product Gross Weight	6.36 Kg
Lithium Iron Battery	400 WH/ 12V	DC Output	12V 10 A * 2
Colors	Fruit Green, Black Gray	USB Output	5V/ 3 A * 2

OUTDOOR PORTABLE POWER BANK

SF1500 - S2000WH

Specification			
AC Output	AC 220V: 1500 W * 6	Mobile Phone Wireless Charging	15 W
Peak Output	AC 220V: 3000 W	LED Lighting	5 W
Solar Voltage	MPPT - 15 - 50V - 30 A (Optional)	Product Size	310 * 200 * 360 mm
AC Charging Power	300 W	Package Size	370 * 270 * 500 mm
AC Charging Time	7 Hours	Product Weight	14.6 Kg
Ternary Lithium Battery	2000 WH/ 12V	DC Output	12V 10 A * 2
Colors	Orange Gray, Fruit Green	USB Output	5V/ 3 A * 14

SF1000 - T800WH

Specification			
AC Output	AC 220V: 1000 W * 3	Mobile Phone Wireless Charging	15 W
Peak Output	AC 220V: 2000 W	LED Lighting	5 W
Solar Voltage	MPPT - 15 - 50V - 30 A (Optional)	Product Size	280 * 160 * 340 mm
AC Charging Power	150 W	Package Size	330 * 260 * 500 mm
AC Charging Time	6 Hours	Product Weight	10.7 Kg
Lithium Iron Battery	800 WH/ 12V	DC Output	12V 10 A * 2
Colors	Fruit Green, Black Gray	USB Output	5V/ 3 A * 2

TROLLEY TYPE MOBILE POWER SUPPLY

Specification			
Output Power	2000 W	Peak Output	4000 W
PV Maximum Input	1800 W/ 30 A	MPPT Voltage	12 - 120V
Mobile Phone Wireless Charging	15 W	Charging Power	1200 W

MOBILE POWER SUPPLY

- Test Conditions:
  - Based on the factory date, 0.2C charge and discharge rate at 100% depth of discharge (DOD) and 25°C.
  - Weight of the battery module is subject to the actual product, and a tolerance of ±3% is allowed.
  - Installation of the energy storage system is related to product quality assurance, safe and stable operation. Please follow the user manual for standardized installation, use and routine maintenance.
  - Energy Storage System is ordered and shipped in the form of independent power modules and battery modules. The quantity corresponds to the required system and configuration.

C500W – C

Specification			
Battery Power	576 WH	Rated Voltage	12.8V
Battery Core	Lithium Iron Phosphate Battery	DC Output	12V 3A * 4
USB Output	5V 2A * 2	Display	SOC Status Indication LED
Cigarette Lighter	12V 10A	Maximum Working Altitude	4000 m
Operating Temperature	-20° C to 50° C	Working Relative Humidity	5% ~ 95%
Installation Environment	Indoor	Protection Level	IP64
Cooling Method	Natural Convection	Host Size (L * W * H)	253 * 150 * 220 mm
Accessories	Charger 15V 5A	Net Weight	6.1 Kg
Solar Panel Size (L * W * H)	400 * 270 * 18 mm	Gross Weight	7.2 Kg

C300W - DC

Specification			
Battery Power	300 WH	Rated Voltage	11.1V
Battery Core	Ternary Lithium Battery	DC Output	12V 3A * 4
USB Output	5V 2A * 2	Display	SOC Status Indication LED
Cigarette Lighter	12V 10A	Maximum Working Altitude	4000 m
Operating Temperature	-20° C to 50° C	Working Relative Humidity	5% ~ 95%
Installation Environment	Indoor	Protection Level	IP64
Cooling Method	Natural Convection	Host Size (L * W * H)	203 * 120 * 180 mm
Accessories	Charger 15V 3A	Net Weight	4 Kg
Solar Panel Size (L * W * H)	350 * 240 * 18 mm	Gross Weight	4.5 Kg

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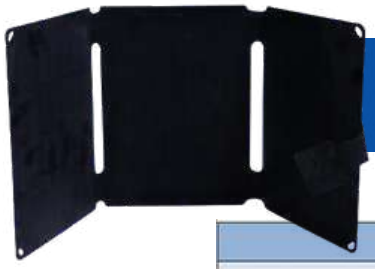
OUTDOOR PORTABLE PHOTOVOLTAIC CHARGING PANEL

HW72 - YT10W2P

Specification			
Maximum Power	10 W	Best Working Voltage	6V
Best Operating Current	6V	Short Circuit Current	1.77 A
Short Circuit Current	1.77 A	Working Temperature	-40℃ - 85℃
Expanded Size	250 * 325 * 2 mm	Battery Type	Monocrystalline
Packing Size	255 * 170 * 35 mm	Battery Efficiency	23%
Power Tolerance	±3%	Product Net Weight	0.3 Kg
Fabric	1200D Waterproof Cloth	Folding Size	250 * 160 * 5.5 mm



HW71 - BF200W6P

Specification			
Maximum Power	200 W	Battery Efficiency	22%
Best Working Voltage	18V	Cloth	120D Tarpaulin
Best Working Current	11.11 A	Expand Size	1370 * 11* 15 mm
Open Circuit Voltage	21.6V	Folded Size	560 * 400 * 75 mm
Short Circuit Current	1.77 A	Package Size	585 * 405 * 110 mm
Operating Temperature	-40℃ - 85℃	Product Weight	6.4 Kg
Power Tolerance	±3%	Battery Type	Single Crystal

HW71 - BF200W4P

Specification			
Maximum Power	200 W	Battery Efficiency	22%
Best Working Voltage	18V	Expand Size	2434 * 547 * 6 mm
Best Working Current	11.11 A	Folded Size	559 * 533 * 47 mm
Open Circuit Voltage	21.6V	Package Size	590 * 575 * 80 mm
Short Circuit Current	11.78 A	Product Weight	6.6 Kg
Operating Temperature	-40℃ - 85℃	Product Gross Weight	9 Kg
Power Tolerance	±3%	Battery Type	Single Crystal

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HW71 - YT20W3P

Specification			
Maximum Power	20 W	Battery Efficiency	23%
Best Working Voltage	6V	Cloth	120D Tarpaulin
Best Working Current	3.3 A	Expand Size	266 * 607 * 2 mm
Open Circuit Voltage	7.5V	Folded Size	200 * 266 * 30 mm
Short Circuit Current	3.5 A	Package Size	271 * 210 * 45 mm
Operating Temperature	-40℃ - 85℃	Product Weight	0.55 Kg
Power Tolerance	±3%	Battery Type	Single Crystal

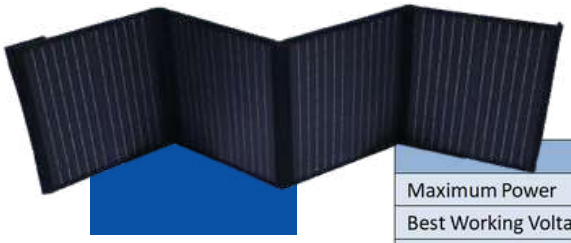
OUTDOOR PORTABLE PHOTOVOLTAIC CHARGING PANEL

HW71 - YT100W2P

Specification			
Maximum Power	100 W	Battery Efficiency	22%
Best Working Voltage	18V	Expand Size	585 * 1245 * 50 mm
Best Working Current	5.56 A	Folded Size	585 * 620 * 6 mm
Open Circuit Voltage	21.6V	Package Size	655 * 615 * 50 mm
Short Circuit Current	5.89 A	Product Weight	4.02 Kg
Operating Temperature	-40℃ - 85℃	Power Tolerance	±3%

HW71 - BF60W4P

Specification			
Maximum Power	60 W	Battery Efficiency	22%
Best Working Voltage	16V	Expand Size	1490 * 380 mm
Best Working Current	3.33 A	Folded Size	3800 * 335 * 55 mm
Open Circuit Voltage	21.6V	Product Weight	3.15 Kg
Short Circuit Current	3.53 A	Operating Temperature	-40℃ - 85℃
Power Tolerance	±3%	Battery Type	Single Crystal



HW71 - BF100W4P

Specification			
Maximum Power	100 W	Battery Efficiency	22%
Best Working Voltage	18V	Expand Size	1750 * 430 * 5 mm
Best Working Current	5.56 A	Folded Size	430 * 390 * 50 mm
Open Circuit Voltage	21.6V	Package Size	455 * 405 * 80 mm
Short Circuit Current	5.89 A	Product Weight	3.78 Kg
Operating Temperature	-40℃ - 85℃	Power Tolerance	±3%
Battery Type	Single Crystal	Product Gross Weight	4.2 Kg

DC HOME APPLIANCES SERIES

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The working principle of DC home appliances is to mainly drive the corresponding electrical equipment through DC power. DC home appliances use DC speed regulation technology, which is especially used in high-end home appliances to achieve more precise and efficient energy control.

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12-INCH 6-TYPE MULTI-PURPOSE TABLE FAN (EXPANDABLE CAPACITY TO 12000 MAH)

Specification			
Motor	Model 555	Material	Plastic
Voltage	12V	Blade Material	PP Plastic
Height	60 cm	Battery	Radium Battery 12V
Weight	2 KG	Charger	220V/ 110V
			Can be Converted to 12V
Grille	34mm 90 Single	Solar Panel	20W/16V 5m
	Ring Mesh Cover		Cable Included
Power	15W	Rotate	Can Rotate

REMOTE CONTROL SOLAR CHARGING ELECTRIC FAN

12-INCH 6-INCH MUSIC TABLE FAN (EXPANDABLE CAPACITY TO 12000 MAH)

Specification			
Motor	Model 555	Material	Plastic
Voltage	12V	Blade Material	PP Plastic
Height	60 cm	Battery	Radium Battery 12V
Weight	2 KG	Charger	220V/ 110V
			Convert to 12V
Power	15W	Solar Panel	20W/16V 5m (Cable Included)
Grille	34mm 90 Single	Gear Speed	9-Speed Adjustment
	Ring Mesh Cover		

12-INCH TYPE 5 SPECIAL MULTI-PURPOSE TABLE FAN (6V LEAD-ACID BATTERY VERSION)

Specification			
Motor	Model 555	Material	Plastic
Voltage	6V	Blade Material	PP Plastic
Height	50 cm	Battery	Lead-Acid Battery 6V 4.5A
Weight	3 KG	Charger	220V/ 110V
			Convert to 7.2V 1A
Grille	30mm 70 Pieces	Solar Panel	3W/ 9V 3m Thread
	Single Ring	Power	10W

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LD-LW1216F-16-INCH FLOOR FAN (BLUETOOTH PLAYBACK)

Specification			
Motor	Brushless Motor 12V	Grille	Single Circle
			430 mm * 120 Pieces * 1.2
Battery	12V/ 4400 mAH	Product Color	Blue and White
USB Output	5V/ 1A	Product Weight	6 kg
Usage Time	5 - 48 Hours	Product Size	430 * 80 * 540 mm
Charging Time	4 - 6 Hours	Package Size	510 * 130 * 570 mm
Adapter Voltage	13.5V/ 2 A	Solar Panel	15V/ 20W
			5521 * 5 m
Blade Material	pp3/ pp5	Solar Panel Size	450 * 350 * 17 mm

REMOTE CONTROL SOLAR CHARGING ELECTRIC FAN

12-INCH MI 4 FLOOR FAN MECHANICAL VERSION

Specification			
Motor	Model 555	Product Weight	3 KG
Power	10W	Voltage	12V
Height	1 m	Material	Plastic
Grille	350mm Plastic Mesh	Weight	3 KG
Blade Material	PP Plastic	Rotate	Can Rotate
charger	220/110V to 12V	Battery	12V Lithium Battery
Package	Kraft Carton/ Color Box	Solar Panel	20W/ 16V

12-INCH MI 4 FLOOR FAN REMOTE CONTROL VERSION

Specification			
Motor	Model 555	Material	Plastic
Voltage	12V	Blade Material	PP Plastic
Height	1 m	Battery	12V Lithium Battery
Weight	4 KG	Charger	220V/ 110V
			Convert to 12V
Power	10W	Solar Panel	20W/16V 5m
Grille	350mm	Timing	Line 0.5 - 8.5 Hours
	Plastic Mesh		
Rotate	Can Rotate	Interface	DC Bus Input Socket

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LD-PY712 FLOOR FAN (LD-PY712-12 INCHES)

Specification			
Motor	Brushed Motor	Solar Panel	9V/ 2W
	7.4V 12W		5521 * 5 m
Battery Usage	7.4V/ 5000 mAH	Solar Panel Size	290 * 360 * 15 mm
Usage Time	5 - 48 Hours	Product Color	Black
Charging Time	4 - 6 Hours	Product Weight	4.3 KG
Adapter Voltage	8.4V/ 2A	Product Color	Black
Blade Material	PP3	Product Size	410 * 174 * 370 mm
Grille	360 mm * 108 Pieces/ Branch * 1.2	Package Size	420 * 230 * 410 mm

REMOTE CONTROL SOLAR CHARGING ELECTRIC FAN

LD-PW1214 FLOOR FAN (LD-PW1214-14 INCH)

Specification			
Motor	Brushless Motor 12V 12W	Grille	Single Circle
			395 mm * 120 Pieces * 1.2
Battery Model	18650	Solar Panel	15V/ 20W
			5521 * 5 m
Battery Usage	12V/ 4400 mAH	Solar Panel Size	450 * 350 * 17 mm
Adapter Voltage	13.5V/ 2 A	Product Weight	4.3 kg
USB Output	5V/ 1A	Blade Material	Aluminum
Usage Time	5 - 48 Hours	Product Size	450 * 180 * 420 mm
Charging Time	4 - 6 Hours	Package Size	475 * 230 *430 mm

HANDHELD CHARGING FANS

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SOLAR DC REFRIGERATOR

SOLAR DC FREEZER DC-110DC

Specification			
Refrigerator Size	760 * 530 * 700	Refrigerator Packaging Size	794 * 570 * 740
Capacitance	180	Power	70W
Freezer Voltage	DC 12/ 24V	Net Weight	30 KG

SOLAR DC FREEZER DC-208DC

Specification			
Refrigerator Size	874 * 550 * 843	Refrigerator Packaging Size	905 * 580 * 876
Capacitance	156	Power	100W
Freezer Voltage	DC 12/ 24V	Net Weight	34 KG

SOLAR DC FREEZER BCD-138DC

Specification			
Freezer Size	995 * 555 * 660	Freezer Packaging Size	1030 * 580 * 710
Capacitance	138	Freezer Power	70W
Freezer Voltage	DC 12/ 24V	Freezer Constant Temperature	Frozen 100/ Frozen 38
Gross Weight	35 KG	Net Weight	38 KG

DC REFRIGERATOR

DC REFRIGERATOR LP-BC98

Specification			
Refrigerator Size	450 * 449 * 830	Refrigerator Packaging Size	475 * 465 * 859
Rated Power	57W/ 67W	Number of Doors	Single Door
Total Capacity	90L	Condenser	External
Defrost Method	Manual	Gross Weight/ Net Weight	21/ 19.5 KG

DC REFRIGERATOR LP-BCD138

Specification			
Refrigerator Size	465 * 453 * 1193	Refrigerator Packaging Size	495 * 465 * 1233
Rated Power	72W/ 82W	Number of Doors	Double Door
Total Capacity	105L	Condenser	External
Defrost Method	Manual	Gross Weight/ Net Weight	26/ 23 KG

DC REFRIGERATOR LP-BCD188

Specification			
Refrigerator Size	560 * 548 * 1228	Refrigerator Packaging Size	590 * 580 * 1270
Rated Power	95W/ 105W	Number of Doors	Double Door
Total Capacity	180L	Condenser	External
Defrost Method	Manual	Gross Weight/ Net Weight	41/ 37.5 KG

DC REFRIGERATOR LP-BCD258

Specification			
Refrigerator Size	560 * 548 * 1423	Refrigerator Packaging Size	590 * 580 * 1465
Rated Power	96W/ 106W	Number of Doors	Double Door
Total Capacity	213L	Condenser	External
Defrost Method	Manual	Gross Weight/ Net Weight	45/ 42 KG

INTEGRATED STREET LIGHT

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AIRCRAFT CARRIER STYLE INTEGRATED SOLAR STREET LIGHT

Specification			
Watts	800 W	Housing Size	626 * 360 * 72
Photovoltaic Panel Size	335 * 510 mm	Photovoltaic Panel Power	Polycrystalline 6V/ 20W
Battery Configuration	3.2V/ 15 Ah	Usage Time	8 - 10 Hours
Color Box Size	62.6 * 36 * 7 cm	Carton Size	65 * 42.5 * 38/ 5 Pcs

OHM STYLE INTEGRATED STREET LIGHT

Specification			
Watts	2000 W	Fully Charged Lighting	20 Hours
Solar Panels	6V/ 28 W Polycrystalline	Battery Capacity	3.2V 25 Ah 32650 Lithium Iron Phosphate
Lamp Body Size	Battery 713 * 342 * 82 mm	Package Size	355 * 85 * 725 mm
Carton Size	74 * 40 * 37 cm/ 4 Pcs	Irradiation Area	250 Square Meters

CS-BENZ INTEGRATED STREET LIGHT

Specification			
Watts	800 W	Fully Charged Lighting	20 Hours
Solar Panels	6V/ 25 W Polycrystalline	Carton Size	61.5 * 42.5 * 36.5 cm/ 5 Pcs
Battery Capacity	3.2V 20 Ah Lithium Iron Phosphate Battery	Product Weight	3.25 Kg
Lamp Body Size	60.5 * 8 * 35 cm	Color Box Size	35 * 8 * 60.5 cm

SHENZHOU 5 INTEGRATED STREET LIGHT

Specification			
ABS	Polysilicon	Operating Hours	12 Hours
Size	759 * 300 * 70 mm	Multiple Photovoltaic Panel Power	Polycrystalline 6V/ 20 W
Battery Configuration	3.2V/ 15 Ah	Usage Time	1 - 8 Hours

ROCKET MODEL 8 HEADS

Specification			
Watts	800 W	Fully Charged Lighting	20 Hours
Solar Panels	6V/ 25 W Polycrystalline	Lamp Body Size	Battery 533 * 365 * 66 mm
Battery Capacity	3.2V 15 Ah 32650 Lithium Iron Phosphate	Irradiation Area	200 Square Meters

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DIAMOND DISC 1000 W

- Light Control
- Remote Control
- Radar Human Body Induction
- Lamp Bead Board: 1200 Beads/ 2835 Lamp Beads

Specification			
Watts	1000 W	Housing Size	None
Photovoltaic Panel	6V/ 30 W	Battery Capacity	20,000 MA
Charging Time	5 - 6 Hours	Usage Time	10 - 15 Hours

SOLAR GARDEN LIGHT

NEPTUNE 1000 W

Specification			
Watts	1000 W	Battery Capacity	20,000 MA
Photovoltaic Panel	6V/ 18 W	Charging Time	5 - 6 Hours

- Light Control
- Remote Control
- Human Body Induction
- Lamp Bead Board: 75 Beads/ 5730 Lamp Beads

CHINA STYLE RGB COLORFUL STREET LAMP

- Light Control
- Remote Control
- Human Body Induction

Specification			
Power	180 W	Lamp Beads	5730/ 672 Piece
Battery	18000 MA	Photovoltaic Panel	6V/18W
Product Size	241 * 748 * 66 mm	Carton Size	760 * 365 * 260 mm

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SOLAR CEILING LIGHT XW-2405

- Remote Control Turns Lights On/ Off
- Remote Control Sets the Lighting Time

Specification			
Lamp Holder Size	Diameter 300	Photovoltaic Panel	670 * 500 * 25
Battery	40 Ah	Lighting Time	6 Hours
Remote Control	Has Remote Control	Installation Location	Bedroom, Study Room

SOLAR CEILING LIGHT

SOLAR CEILING LIGHT XW-2049

- Controlled by Wall Switch
- Automatically Light Up when Dark

Specification			
Lamp Holder Size	400 * 400	Photovoltaic Panel	670 * 500 * 25
Battery	60 Ah	Lighting Time	6 Hours
Lamp Holder Power	36	Installation Location	Bedroom, Study Room, Living Room

SOLAR CEILING LIGHT XW-2401

- Integrated Light Source
- Remote Control Sets Lighting Time
- Remote Control Turns the Lights On/ Off

Specification			
Lamp Holder Size	Diameter 280	Photovoltaic Panel	670 * 400 * 25
Battery	30 Ah	Lighting Time	6 Hours
Remote Control	Has Remote Control	Installation Location	Bedroom, Balcony

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SOLAR CEILING LIGHT

SOLAR CEILING LIGHT XW-2043

- Voice-Activated Light
- Lamp Head Type Radar
- Turns Off after 1 Minute of Silence
- Lights Up with a High-Five or a Cough

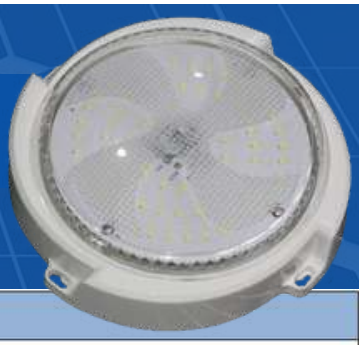
Specification			
Lamp Holder Size	Direct 240	Photovoltaic Panel	670 * 400 * 25
Battery	30 Ah	Lighting Time	6 Hours
Lamp Holder Power	24	Installation Location	Bathroom, Stairs

SOLAR CEILING LIGHT XW-2410

- Acrylic Lampshade
- Controlled by Wall Switch
- Automatically Lights Up when Dark

Specification			
Lamp Holder Size	Diameter 500	Photovoltaic Panel	670 * 600 * 25
Battery	50 Ah	Lighting Time	6 Hours
Lamp Holder Power	28	Installation Location	Bathroom, Study, Living Room

SOLAR CEILING LIGHT



- Light Control
- Remote Control

Specification			
Power	300 W	Photovoltaic Panel	5 W
Battery	3.2V/ 20000 MA	Carton Size	745 * 400 * 400 mm

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SURVEILLANCE SYSTEM

The cameras are widely used in various environments, such as homes, offices, public places, factories, etc. to ensure safety and monitor daily activities.

REAL-TIME TRANSMISSION

The camera transmits the captured image or video to a display device or storage device in real time through a wired or wireless connection, allowing users to view and record instantly.

HD QUALITY

Modern surveillance cameras usually have HD resolution and are able to capture clear and detailed images to help users identify targets more accurately.

NIGHT VISION FUNCTION

Many surveillance cameras are equipped with night vision functions. Through infrared technology or other methods, clear pictures can be captured in dark environments.

MOTION TRACKING

Some cameras have intelligent motion tracking functions that can automatically identify and track moving objects, and provide timely alarms for abnormal behaviors or intruders.

STORAGE FUNCTION

The surveillance camera can save the captured images or videos on a local storage device or cloud server, making it convenient for users to view and play back at any time.

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PHOTOVOLTAIC PANEL INTEGRATED SURVEILLANCE CAMERA

- Motion Detection
- Night View Distance: 30 Meters
- Alarm Information to Mobile/ Email

4G/ WiFi Indoor Camera

Specification			
Model (4G/ WX) Classification	YHZL-HX3013-4G/ WX-300W	Model (4G/ WX) Classification	YHZL-HX3013-4G/ WX-500W
Storage	256 G	Chip	Junzheng T31
Operating Temperature	-40° C - 70° C	Support TF Card Storage	External TF Card
Antenna	50 dB Enhanced Version	Night Vision	2 Infrared
Motion Detection	30 m Night Vision Distance	Standard Recording	Intercom Function

4G/ WiFi Vehicle Waterproof Camera

- Motion Detection
- Night View Distance: 30 Meters
- Alarm Information to Mobile/ Email

Specification			
Model (4G/ WX) Classification	YHZL-HX2013-4G/ WX-300W	Model (4G/ WX) Classification	YHZL-HX2013-4G/ WX-500W
Chip	Junzheng T31	Operating Temperature	-40° C - 70° C
Storage	256 G	Waterproof	Yes
Night Vision	2 Infrared	Motion Detection	30 m Night Vision Distance
Standard Recording	Intercom Function	Support TF Card Storage	External TF Card

SOLAR MICROPOWER MONITORING SET

3 INCH 4G CAMERA

Specification			
Solar Power Supply System	40 W 20 Ah	Signal Classification	YHZL-HX328T31-4G-D
Chip	300 W	Panel Dimensions	530 * 350 mm
Wifi	No	Backup	2 Days (Approximately)

3.8 INCH 4G CAMERA

Specification			
Solar Power Supply System	40 W 20 Ah	Signal Classification	YHZL-HX338BJ-4G-B
Chip	300 W	Panel Dimensions	530 * 350 mm
Wifi	No	Backup	2 Days (Approximately)

ELECTRONIC CAMERA

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4G/ WIFI CAMERA

Specification			
Model (4G/ WX) Classification	YHZL-HX1013T31-4G/ WX-300W	Model (4G/ WX) Classification	YHZL-HX1013T31-4G/ WX-500W
Chip	Junzheng T31	Storage	256 G
Mobile Phone Remote	Intercom Function	Standard & Custom Recording	40 m Intercom
Voice Alarm	Motion Detection	Support TF Card Storage	External TF Card

3.5 INCH 4G/ WIFI CAMERA (METAL FRONT COVER)

Specification			
Model	YHZL-HX335T31-4G/ WX-300W	Model	YHZL-HX335T31-4G/ WX-500W
Model	YHZL-HX535T31-4G/ WX-300W	Model	YHZL-HX535T31-4G/ WX-500W
Chip	Junzheng T31	Storage	256 G
Mobile Phone Remote	Image Capture	Standard & Custom Recording	Voice Alert
Built-In Voice	Remote Recording	Support TF Card Storage	External TF Card

2.5 INCH 4G/ WIFI

Specification			
Model (4G/ WX) Classification	YHZL-HX2013-4G/ WX-300W	Model (4G/ WX) Classification	YHZL-HX2013-4G/ WX-500W
Chip	Junzheng T31	Operating Temperature	-40° C - 70° C
Storage	256 G	Night Vision	2 Infrared
30 m Night Vision Distance	Motion Detection	Waterproof Monitoring	Vehicle Monitoring
Standard Recording	Intercom Function	Support TF Card Storage	External TF Card

4 INCH RED AND BLUE ALARM 4G/ WIFI CAMERA

Specification			
Model	YHZL-HX338T31-4G/ WX-300W	Model	YHZL-HX338T31-4G/ WX-500W
Model	YHZL-HX538T31-4G/ WX-300W	Model	YHZL-HX535T38-4G/ WX-500W
Chip	Junzheng T31	Storage	256 G
Mobile Phone Remote	Image Capture	Support TF Card Storage	External TF Card
Standard and Custom Recording	Remote Recording	Remote Playback	Voice Alert

5 INCH RED AND BLUE ALARM 4G/ WIFI CAMERA

Specification			
Model (4G/ WX) Classification	YHZL-HX350T31BJ-4G/ WX300W	Model (4G/ WX) Classification	YHZL-HX350BJ-4G/ WX-5x-300W
Model (4G/ WX) Classification	YHZL-HX550T31BJ-4G/ WX500W	Model (4G/ WX) Classification	YHZL-HX550BJ-4G/ WX-5x-500W
Chip	Junzheng T31	Storage	256 G
Mobile Phone Remote	Intercom Function	Standard & Custom Recording	Image Capture
Voice Alarm	Motion Detection	Support TF Card Storage	External TF Card

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2 INCH 400 W - 4G SOLAR LOW-POWER BATTERY CAMERA

Specification			
Model	IPQ-WP428-4G	Chip	T31
IP67	Dustproof	Waterproof	Full Color Night Vision
5V Solar Charging Board	Tracking	Built-In Battery	Reduce Power Waste

4 INCH 300 W LONG-LASTING WIFI/ 4G CAMERA

Specification			
Model	IPQ-WP338BJ-4G/ WX	Chip	T31
Storage	256 G	Intercom Range	40 m
Standard Recording	Custom Recording	Support TF External Card	External TF Card
Built-In Subwoofer	Voice Alert	Motion Detection	Alarm Information Sent to Mobile

ELECTRONIC CAMERA

9 INCH DUAL LIGHT SOURCE 30X CAMERA

Specification			
Model Classification	YHZL-HX370-30X 300W-4G/ WX	Model Classification	YHZL-HX570-30X 500W-4G/ WX
Chip	200 W	Chip	500 W
Rotation Speed	60 Degree/ Second	Rotation	360 Degree
Starlight Level Dual Light Source	HI3516EV200 IMX307	2 Infrared	4 Laser Lights
30x Optical Zoom	80 m 6 White Lights	53 - 96 Lens	200 m Infrared Distance

2.8 INCH EXTERNAL SPEAKER 4G/ WIFI CAMERA

Specification			
Model (4G/ WX) Classification	YHZL-HX328T31/ WX-300W	Model (4G/ WX) Classification	YHZL-HX528T31/ WX500W
Chip	Junzheng T31	Intercom Range	50 m
Storage	256 G	Support TF Card Storage	External TF Card
Image Capture	Standard Recording	Remote Recording	Remote Playback

4-INCH BINOCULAR CAMERA

Specification			
Model	YHZL-IPCQ-HX340BJ-WX/ 4G-300W	Chip	300 W
Storage	256 G	Intercom Range	50 m
Support TF Card Storage	External TF Card	Mobile Phone Remote	Image Capture
Standard Recording	Remote Recording	Custom Recording	Intercom Function
Screen Tracking	No Blind Spots	Monitoring in Different Directions	Voice Alarm

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300 W - 4G MINI LOW-POWER BATTERY CAMERA (D50-4G)

Specification			
Model	D50-4G	Chip	T31
Camera Size	52 * 37 * 40 mm	Storage	256 G
IRCUT Integrated Module	4G Network	Infrared	2400 mAH Battery

300 W - WIFI MINI LOW POWER BATTERY CAMERA (W40-D)

Specification			
Model	W40-D	Chip	T31
Storage	256 G	IRCUT Integrated Module	4G Network
1600 mAH Battery	Low Consumption	Infrared Night Vision	Removable Stand Base

ELECTRONIC CAMERA

300 W - 4G MINI LOW-POWER BATTERY CAMERA (D60-4G)

Specification			
Model	D60-4G	Chip	T31
Storage	256 G	Camera Size	56 * 43 * 44 mm
IRCU Integrated Module	4G Network	3000 mAH Battery	Infrared Night Vision

300 W - WIFI MINI BATTERY CAMERA (W40)

Specification			
Model	W40	Chip	T31
Storage	256 G	Battery	1600 mAH
IRCUT Integrated Module	Removable Stand Base	Low Consumption	Infrared Night Vision

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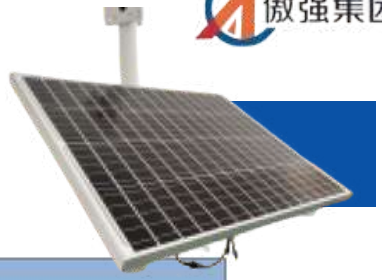
120 W 60 AH Solar Power Supply System



Specification			
Model	YHZL-120W-60 A/H (DC12V output)	Current at Maximum Power IPM	8.3A
Conversion Rate	19% or More	Current at Maximum Power VPM	18.267V
Maximum Voltage	18V	VOC (Voltage Open Circuit)	21.6V
Maximum Current	5.5A	Short Circuit Current	5.9A

200 W 120 AH SOLAR POWER SUPPLY SYSTEM

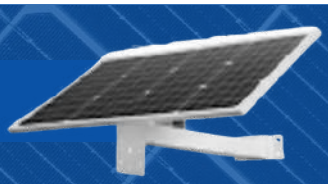
Specification			
Model	YHZL-200W-120 A/H (DC12V output)	Current at Maximum Power IPM	8.3A
Conversion Rate	19% or More	Current at Maximum Power VPM	18.267V
Maximum Voltage	18V	VOC (Voltage Open Circuit)	21.6V
Maximum Current	5.5A	Short Circuit Current	5.9A

SOLAR POWER SUPPLY SYSTEM

60 W 30 AH Solar Power Supply System

Specification			
Model	YHZL-60W-30 A/H (DC12V output)	Current at Maximum Power IPM	8.3A
Model	YHZL-60W-40 A/H (DC12V output)	Current at Maximum Power VPM	18.267V
Conversion Rate	19% or More	Maximum Voltage	18V
Maximum Current	5.5A	Short Circuit Current	5.9A
VOC (Voltage Open Circuit)	21.6V	Maximum Power	60W/ Block

60 W 40 AH SOLAR POWER SUPPLY SYSTEM



Specification			
Model	YHZL-80W-40 A/H (DC12V output)	Short Circuit Current	5.9A
Conversion Rate	19% or More	Maximum Power	60W/ Block
Maximum Voltage	18V	Maximum Current	10A

AGRICULTURAL IRRIGATION SYSTEM

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A photovoltaic irrigation system is a technology that combines photovoltaic technology with water-saving irrigation and is mainly used for agricultural irrigation and water resource management. This system uses solar panels to collect solar energy and convert it into electricity to drive water pumps for irrigation. Photovoltaic irrigation systems do not need to rely on the power grid or energy storage equipment, so they are particularly suitable for use in remote areas or areas with insufficient power.

The core components of the photovoltaic irrigation system include photovoltaic water pumping systems, water conservancy projects, photovoltaic irrigation, and photovoltaic water treatment. These systems are widely used in fields such as agricultural and forestry irrigation, desert control, grassland animal husbandry, domestic water supply, seawater desalination, and urban waterscapes.

By combining photovoltaic technology with traditional water conservancy construction, human, financial, material, and power resources can be effectively saved, creating significant economic and social value for water conservancy projects. The advantage of photovoltaic water-saving irrigation technology is its obvious water-saving effect. Compared with traditional flood irrigation or hand-watering methods, it can save a lot of water resources. For example, photovoltaic water-saving irrigation can save 22.9% of water.

In addition, this technology can also help improve the yield and quality of crops, thereby increasing farmers' income. Generally speaking, photovoltaic irrigation systems provide an environmentally friendly, energy-saving, and efficient irrigation method for agriculture, which helps to solve the problems of water shortage and energy supply and also promotes the sustainable development of agriculture.

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SMALL PHOTOVOLTAIC WATER SUPPLY STATION

PHOTOVOLTAIC WATER TANK

AGRICULTURAL IRRIGATION CASE

MICRO PHOTOVOLTAIC WATER PUMP CONTROL SYSTEM

PHOTOVOLTAIC POWER SUPPLY WATER SYSTEM

SPRINKLER SYSTEM

CAR CHARGING SYSTEM

A solar car charging pile is a device that uses solar photovoltaic technology to charge electric vehicles. The main components include solar photovoltaic panels, DC/DC converters, and charge controllers. Solar photovoltaic panels are the core component of solar charging piles, which can convert sunlight into DC electricity. When sunlight shines on a photovoltaic panel, photons interact with atoms in the materials within the panel, exciting electrons and generating current. These currents are transmitted to the charge controller through metal wires on the battery board. The charge controller adjusts the charging current according to the voltage output by the battery panel to ensure appropriate input and output of electric energy during the charging process.

In addition, the DC/DC converter is used to convert the DC output from the battery panel into stable DC to provide charging for users. When the power stored in the battery is insufficient, the solar charging pile can convert solar energy into AC power through a DC/AC converter and output it to household appliances for use.

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EVA-P7 SMALL PLASTIC SHELL AC CHARGING PILE

Specifications			
Input/ Output Voltage	AC 220V ± 15%	Output Power	7kW
Output Current	0 – 31A	Cable Length	5 m/ 3.5 m
Charging Method	Swipe Card Charging	Charging Mode	Automatic Full Charge/ Fixed
	Scan Code Charging		
	Plug and Charge		
	Password Charging		Amount of Electricity/ Fixed Time
	Electronic Key Charging		
Implementation Standards	GB/T 18487.1-2015	Payment Method	Pay by Card
	GB/T 20234.2-2015		Pay by Scanning QR Code
Communication Interface	Ethernet/ Other	Function (Optional)	Swipe Card/ LAN/ Full Function
Protection Level	IP54	HMI	4.3-Inch High-Bright Color Display Touch Screen

CAR CHARGING SYSTEM

EVA-P7 PLASTIC SHELL AC CHARGING PILE

Specifications			
Input/ Output Voltage	AC 220V ± 15%	Output Power	7kW
Output Current	0 – 32A	Cable Length	5 m/ 3.5 m
Charging Method	Swipe Card Charging	Charging Mode	Automatic Full Charge/ Fixed
	Scan Code Charging		
	Plug and Charge		
	Password Charging		Amount of Electricity/ Fixed Time
	Electronic Key Charging		
Implementation Standards	GB/T 18487.1-2015	Payment Method	Pay by Card
	GB/T 20234.2-2015		Pay by Scanning QR Code
Communication Interface	Ethernet/ GPRS/ Other	Function (Optional)	Swipe Card/ LAN 4G/ Full Function
Protection Level	IP54	HMI	4.3-Inch High-Bright Color Display Touch Screen

EVA-M7 IRON SHELL AC CHARGING PILE

Specifications			
Input/ Output Voltage	AC 220V ± 15%	Output Power	7kW
Output Current	0 – 31A	Cable Length	5 m/ 3.5 m
Charging Method	Swipe Card Charging	Charging Mode	Automatic Full Charge/ Fixed
	Scan Code Charging		
	Plug and Charge		
	Password Charging		Amount of Electricity/ Fixed Time
	Electronic Key Charging		
Implementation Standards	GB/T 18487.1-2015	Payment Method	Pay by Card
	GB/T 20234.2-2015		Pay by Scanning QR Code
Communication Interface	Ethernet/ Other	Function (Optional)	Swipe Card/ LAN 4G/ Full Function
Protection Level	IP54	HMI	4.3-Inch High-Bright Color Display Touch Screen

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EVA2-M7 DOUBLE GUN IRON SHELL AC CHARGING PILE

Specifications			
Input/ Output Voltage	AC 220V ± 15%	Output Power	7kW
Output Current	0 – 32A	Cable Length	5 m/ 3.5 m
Charging Method	Swipe Card Charging	Charging Mode	Automatic Full Charge/ Fixed
	Scan Code Charging		
	Plug and Charge		
	Password Charging		Amount of Electricity/ Fixed Time
	Electronic Key Charging		
Implementation Standards	GB/T 18487.1-2015	Payment Method	Pay by Card
	GB/T 20234.2-2015		Pay by Scanning QR Code
Communication Interface	Ethernet/ GPRS/ Other	Function (Optional)	Swipe Card/ LAN 4G/ Full Function
Protection Level	IP54	HMI	4.3-Inch High-Bright Color Display Touch Screen

CAR CHARGING SYSTEM

EVA-M21/ 11 SPECIAL THREE-PHASE AC CHARGING PILE

Specifications			
Input/ Output Voltage	380V ± 15%	Working Current	32/ 16A
Output Power	21/ 11kW	Cable Length	5 m/ 3.5 m
Charging Method	Swipe Card Charging	Charging Mode	Automatic Full Charge/ Fixed
	Scan Code Charging		
	Plug and Charge		
	Password Charging		Amount of Electricity/ Fixed Time
	Electronic Key Charging		
Implementation Standards	GB/T 18487.1-2015	Payment Method	Pay by Card
	GB/T 20234.2-2015		Pay by Scanning QR Code
Communication Interface	Ethernet/ Other	Function (Optional)	Swipe Card/ LAN 4G/ Full Function
Protection Level	IP54	HMI	4.3-Inch High-Bright Color Display Touch Screen

EVAD-20/30/40 WALL-MOUNTED DC CHARGING PILE

Specifications			
Input/ Output Voltage	AC 380V ± 15%	Input Frequency	50 Hz ± 5%
Efficiency (Full Load)	⩾96%	Output Port	Single Gun
Installation Method	Wall-Mounted/ Pillar	Output Voltage	200 - 750/ 1000 VDC
Output Current	0 - 67/ 100/ 133A	Output Power	20/ 30/ 40kW
Accurate Voltage Regulation	⩽0.5%	Power Factor	>0.99
Dimensions (Width x Depth x Height)	490 * 210 * 600 mm	HMI	4.3-Inch High-Bright Color Display Touch Screen

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CAR CHARGING SYSTEM

EVPD INTEGRATED SINGLE GUN DC POWER PILE

Specifications			
Input/ Output Voltage	380V ± 15%	Input Frequency	50 Hz ± 5%
Efficiency (Full Load)	>96%	Output Port	Single Gun
Output Voltage	200 - 750/ 1000 VDC	Output Current	0 - 100/ 133/ 200/ 250A
Output Power	30/ 40/ 60/ 80/ 90kW	Heat Dissipation Method	Forced Cold Air
Power Factor	>0.99	Installation Method	Floor-Standing
Dimensions (Width x Depth x Height)	550 * 520 * 1400 mm	HMI	7-Inch High-Bright Color Display Touch Screen

EVAD2-ALL-IN-ONE DUAL-GUN DC CHARGING PILE

Specifications			
Input/ Output Voltage	AC 380V ± 15%	Input Frequency	50 Hz ± 5%
Efficiency (Full Load)	⩾96%	Output Port	Single Gun
Output Voltage	200 - 750/ 1000 VDC	Output Current	0 - 100/ 133/ 200/ 250A
Output Power	40/ 60/ 80 kW	Accurate Voltage Regulation	⩽0.5%
Power Factor	>0.99	Installation Method	Floor-Standing
Dimensions (Width x Depth x Height)	680 * 380 * 1750 mm	HMI	4.3-Inch High-Bright Color Display Touch Screen

EVPD2-120 INTEGRATED DUAL-GUN DC CHARGING PILE

Specifications			
Input/ Output Voltage	380V ± 15%	Input Frequency	50 Hz ± 5%
Efficiency (Full Load)	>96%	Output Port	Double Gun
Output Voltage	200 - 750/ 1000 VDC	Output Current	0 - 250A
Output Power	120/ 160/ 180 kW	Heat Dissipation Method	Forced Cold Air
Power Factor	>0.99	Installation Method	Floor-Standing
Dimensions (Width x Depth x Height)	710 * 5450 * 1658 mm	HMI	7-Inch High-Bright Color Display Touch Screen

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CAR CHARGING SYSTEM

EVAD2-120 INTEGRATED DUAL-GUN DC CHARGING PILE

Specifications			
Input/ Output Voltage	AC 380V ± 15%	Input Frequency	50 Hz ± 5%
Efficiency (Full Load)	≥96%	Output Port	Double Gun
Output Voltage	200 - 750/ 1000 VDC	Output Current	0 - 500/ 600A
Output Power	240/ 280/ 300/ 320kW	Accurate Voltage Regulation	≤0.5%
Power Factor	>0.99	Installation Method	Floor-Standing
Dimensions (Width x Depth x Height)	900 * 1000 * 2100 mm	HMI	7-Inch High-Bright Color Display Touch Screen

EVPDF SPLIT DC CHARGING PILE

Specifications			
Input/ Output Voltage	380V ± 15%	Input Frequency	50 Hz ± 5%
Efficiency (Full Load)	> 96%	Output Port	3 - 10
Output Voltage	200 - 750/ 1000 VDC	Output Current	0 - 804/ 1206/ 1608A
Output Power	240/ 360/ 480/ 600 kW	Cable Length	5 m
Power Factor	>0.99	Installation Method	Floor-Standing
Dimensions (Width x Depth x Height)	1100 * 1500 * 2100 mm	Terminal Size	700 * 215 * 1600 mm
Heat Dissipation Method	Forced Cold Air	HMI	7-Inch High-Bright Color Display Touch Screen

EVAD2 INTEGRATED DUAL-GUN DC CHARGING PILE

Specifications			
Input/ Output Voltage	AC 380V ± 15%	Input Frequency	50 Hz ± 5%
Efficiency (Full Load)	≥96%	Output Port	Single Gun
Output Voltage	1000 VDC	Output Current	0 - 250A
Output Power	80 - 240 kW	Accurate Voltage Regulation	≤0.5%
Power Factor	>0.99	Installation Method	Floor-Standing
Dimensions (Width x Depth x Height)	700 * 400 * 1800 mm 700 * 700 * 1900 mm	HMI	7-Inch High-Bright Color Display Touch Screen

INDUSTRIAL AND COMMERCIAL ENERGY STORAGE

Commercial energy storage is an energy storage system used in industrial and commercial fields. Its main purpose is to meet the internal power needs of enterprises and achieve economic benefits. The energy storage system usually includes batteries and battery management systems (BMS), converters (PCS), energy management systems (EMS), and other electrification components. The design of industrial and commercial energy storage systems is flexible and can be configured according to different application scenarios.

The architecture of industrial and commercial energy storage systems can be divided into AC coupling and integrated optical and storage systems. AC-coupled energy storage systems are usually used for small and medium-sized industrial and commercial energy storage, while optical-storage integrated machines are suitable for specific application scenarios.

In terms of application scenarios, industrial and commercial energy storage can be configured alone or combined with photovoltaic systems to form an integrated photovoltaic, storage, and charging power station. In addition, it can also be combined with microgrids to provide more flexible power supply solutions. In general, industrial and commercial energy storage is an effective energy management solution that can help companies reduce power costs and improve energy efficiency while also contributing to the stability of the power grid and the consumption of clean energy.

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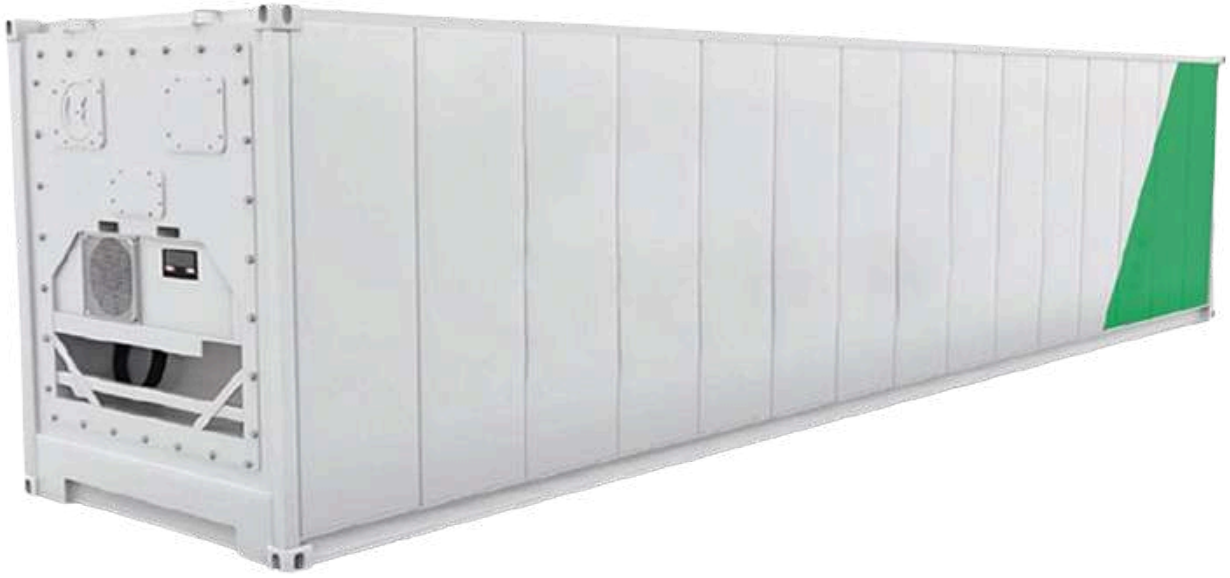
CENTRALIZED ENERGY STORAGE



INDUSTRIAL & COMMERCIAL ENERGY STORAGE

Product Series Introduction includes:
Parameters
Features
System Topology Diagram, etc.

All are practical application demonstrations.

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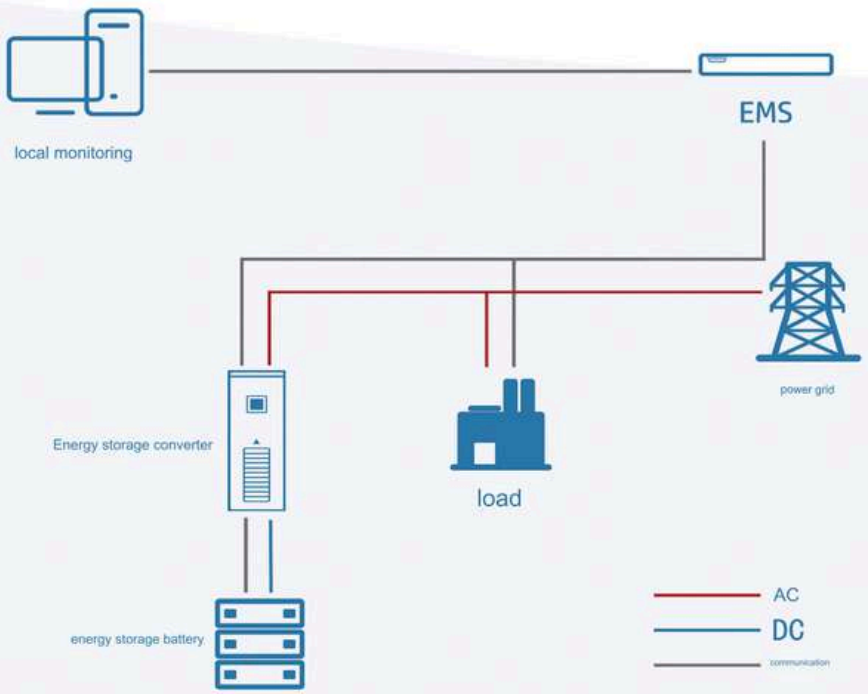
INDUSTRIAL & COMMERCIAL ENERGY STORAGE



INTELLIGENT OPERATION AND MAINTENANCE

Built-in EMS, intelligent regulation, intelligent operation and maintenance, and intelligent control can expand the capacity of the transformer, as can intelligent temperature control and automatic balancing management, effectively improving battery efficiency and lifespan.

SAFE AND RELIABLE

Real-time monitoring and energy optimization management comprehensively guarantee the safety of the battery system. The intelligent fire protection system ensures the safety of independent, single-cluster batteries and is safer without circulation.

COST EFFECTIVE

Multiple operating mode options to increase revenue, single-string design with zero parallel loss, efficient multi-level topology, and minimum.

INTEGRATED

The modular design makes it easy to maintain and expand capacity. The integrated and standardized energy storage system makes it easy to transport and install standardized cabinets to achieve safe isolation of energy storage system partitions.

215 KWH DISTRIBUTED ENERGY STORAGE INTEGRATED CABINET

The distributed energy storage integrated cabinet is suitable for many application scenarios, like transformer expansion, demand management, mobile energy storage, etc.

It combines lithium-ion phosphate batteries, an EMS (Energy Management System), a battery management system (BMS), an energy storage converter (PCS), fire protection, & other equipment that are integrated into energy storage cabinet, adopting modular design, centralized intelligent control, and decentralized refined management.

Battery Parameters	
Voltage	768V
Nominal Capacity	280Ah
Working Voltage Range	684V - 864V
Battery Cluster Composition	1P24OS
Nominal Energy	215.04 KWh
Maximum Charging Current	140 A
Maximum Discharge Current	140 A
Discharge Temperature	-20° C ～ 60 °C
Charging Temperature	0 °C～ 60 °C
AC Side Parameters	
AC Side Rated Power	110 kW
Maximum Power on AC Side	110 kW
AC Side Voltage	380/ 400 Vac
Rated Grid Frequency	50 Hz/ 60 Hz
Working Voltage Range	3P4W + PE
Power Factor	0.8 cap ～ 0.8 ind
Rated Input Current	140 A
System Parameters	
Dimensions (Length * Height * Depth)	1780 * 1840 * 1150 mm
Weight	2.3T ± 5%
Protection Level	IP20
Battery Temperature Control Method	Forced Air Cooling
Fire Protection Plan	PACK Aerosol + Perfluorohexanone
Illustrate	Equipped with EMS

CORE FUNCTIONS

Advantages

- Backup Power
- Reasonable Price
- Higher Productivity
- Mobile Energy Storage
- Transformer Expansion
- Demand Management
- Strong Channel Advantage
- After-Sales Spare Parts Inventory

AFTER-SALES SERVICE

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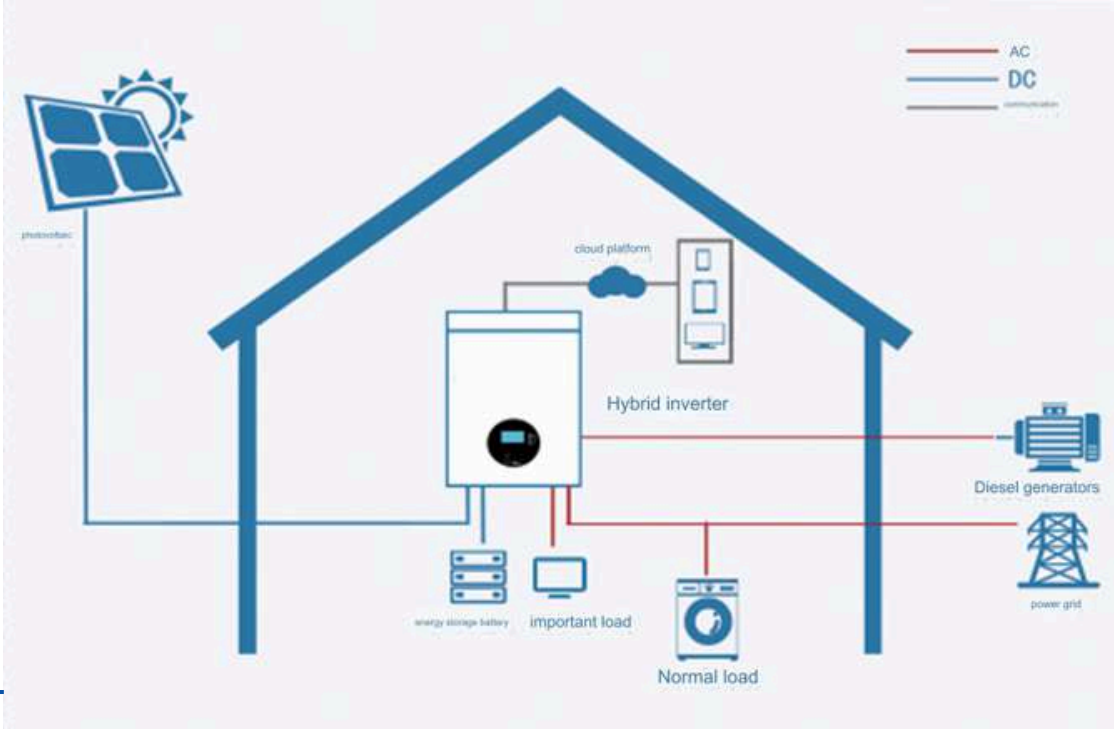
INTEGRATED PHOTOVOLTAIC STORAGE SYSTEM



INTEGRATED DESIGN

Industrial integrated style with fashionable appearance, open interface, can be installed easily and quickly, and preset battery module spaces. Its backup power can be flexibly expanded.

HIGH PERFORMANCE BATTERY

Iron phosphate electric core, safe & stable, 24-hour backup power supply without worrying about power failure.

48V/100AH or 51.2V/280AH battery cell

ECONOMIC INTELLIGENCE

Clean PV energy features self-generation & self-use, reducing carbon emissions. It charges during the day & discharges at peak hours at night, with cloud platform to monitor and control home energy in real time.

SAFE AND RELIABLE

Real-time monitoring & energy optimization management comprehensively guarantee safety of the battery system. The intelligent fire protection system ensures the safety of independent, single-cluster batteries and is safer without circulation.

INTEGRATED PHOTOVOLTAIC STORAGE SYSTEM

Product Model			ZZL-48100-1ES (5kWh)	ZZL-48100-2ES (10kWh)	ZZL-48100-3ES (15kWh)
Battery Pack	Single Battery Module Parameters	Battery Type	Lithium Iron Phosphate		
		Model	48100		
		Battery Capacity	5120Wh (5.12 Degrees of Electricity)		
		Nominal Voltage	51.2V		
		Cell String	16S1P		
		Built-in BMS	485 Communication		
			Short-Circuit & Current Limiting Protection		
			Temperature Protection		
			Over-Voltage & Under-Voltage Protection		
	Number of System Matches		1	2	3
	Total System Matching Capacity		5120Wh	10240Wh	15360Wh
Intelligent Solar Controller	Parameters of a Single Unit	Modulation Method	MPPT		
		MPPT Number	1	1	2
		Control Voltage	Flexible		
		Communication	RS485		
		Voltage	30A	60A	100A
	Number of System Matches		1		
Recommended PV Installation	System Installed Quantity		≤1440W	≤2880W	≤4800W
	Module Series Voltage		≤145V		
	Module Series Connection Quantity		(60 Cell) 2 ~ 3 Strings / (72 Cell) 2 Strings		
Industrial Frequency Inverter	Output Voltage		AC220V		
	Rated Power		2000W	4000W	6000W
	Peak Power		4000W	8000W	12000W
	Frequency		50 Hz		
	Output Waveform		Pure Sine Wave		
	Bandwidth		100% for Short Time, 80% for Long Time		
	Protection		Short-Circuit & Overload		
			Over-Voltage and Under-Voltage		
			Over-Current & Temperature Protection		
	Number of System Matches		1 Unit		
Intelligent Power Distributor	Model		RG-GLFP100		
	Number of Input Channels		1-Way		
	Number of Output Channels		5-Way		
	Output Power of Each Channel		4 Outlets 10A, 1 High Power Terminal Block, Downstream Power Adjustable		
	Function		Increases the pre-charging power of Lithium Battery to the Inverter		
AI Intelligent Control System	Screen Size		7" Touch Screen		
	Function		Intelligent control system for optimized management of batteries, controls, inverters and power dividers		
Charging Mode			Photovoltaic Charging		

The energy storage system has been developed to meet the requirements of the market for new backup energy storage.

This system has the characteristics of intelligence, integration, miniaturization, standardization, environmental protection, etc. It can be widely used in communication base stations, border guard posts, remote areas without electricity, and also in areas with frequent power outages and power limitations.

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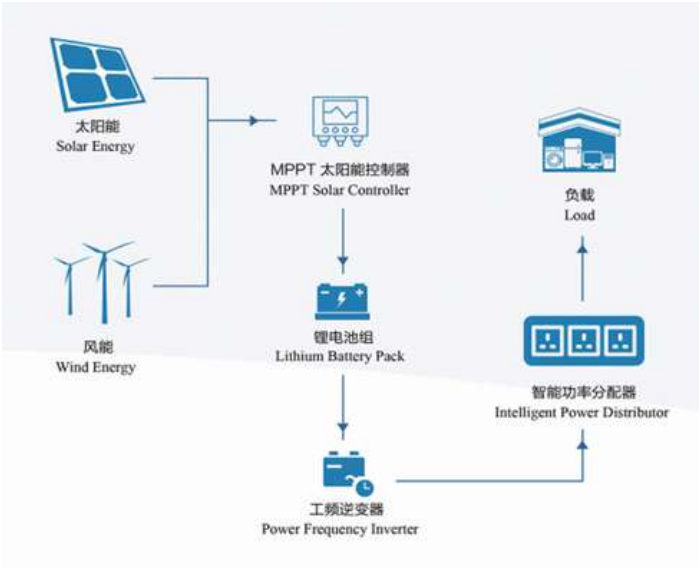
INTEGRATED PHOTOVOLTAIC STORAGE SYSTEM
INTELLIGENT POWER DIVIDER

APPLICATIONS

An intelligent power distributor is an important part of the intelligent storage and control machine, which is of great significance to the safety of users, rational use of electricity, and prolonging the service life of the equipment.

- The Intelligent Power Distributor decides whether to output AC energy according to the remaining power of the storage and control all-in-one machine. When the energy is too low, it will prompt the user to recharge in time.
- The Intelligent Power Splitter has 5 AC outputs, each with short circuit protection, overcurrent alarm protection, and alarm event recording.
- The Intelligent Power Divider can be set to prioritize the power consumption of each output as important or general. When the remaining power of the unit enters the low power alarm threshold, the user will be prompted to turn off the appliances of general power consumption level to protect the operation of important appliances.
- The Intelligent Power Distributor displays the current, voltage, and power data of the appliances on the touch screen in real time so that the user can accurately grasp the authorization situation.



FEATURES

Appliance Failure Detection and Protection

Intelligent Power Divider monitors the load running condition all the time, and if it finds the hidden danger of electrical appliances, it will send out an alarm and cut off the current in time to prevent the disaster from happening. If an electrical fault is detected, the current will be cut off in time to prevent disaster without affecting the power supply of other loads.

Overload Protection

Full-time detection of load power changes, for exceeding the safety of electricity norms of electrical appliances, timely alarm delay cut off while not affecting the safety of other loads of electricity.

Extend Battery Life

Ensure the battery life of important appliances through rational allocation and better use of every kilowatt-hour.

CONTAINER ENERGY STORAGE SYSTEM

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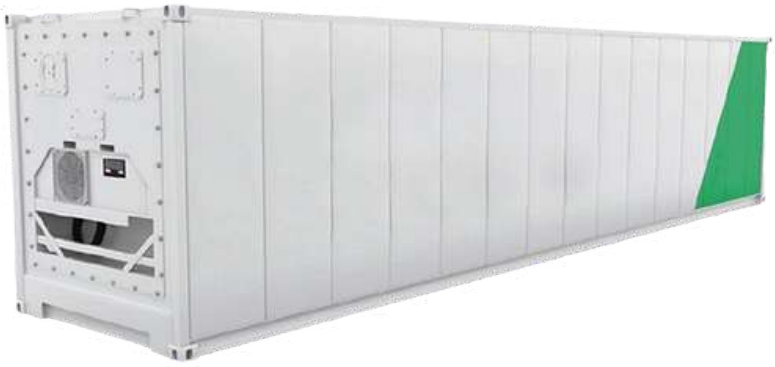
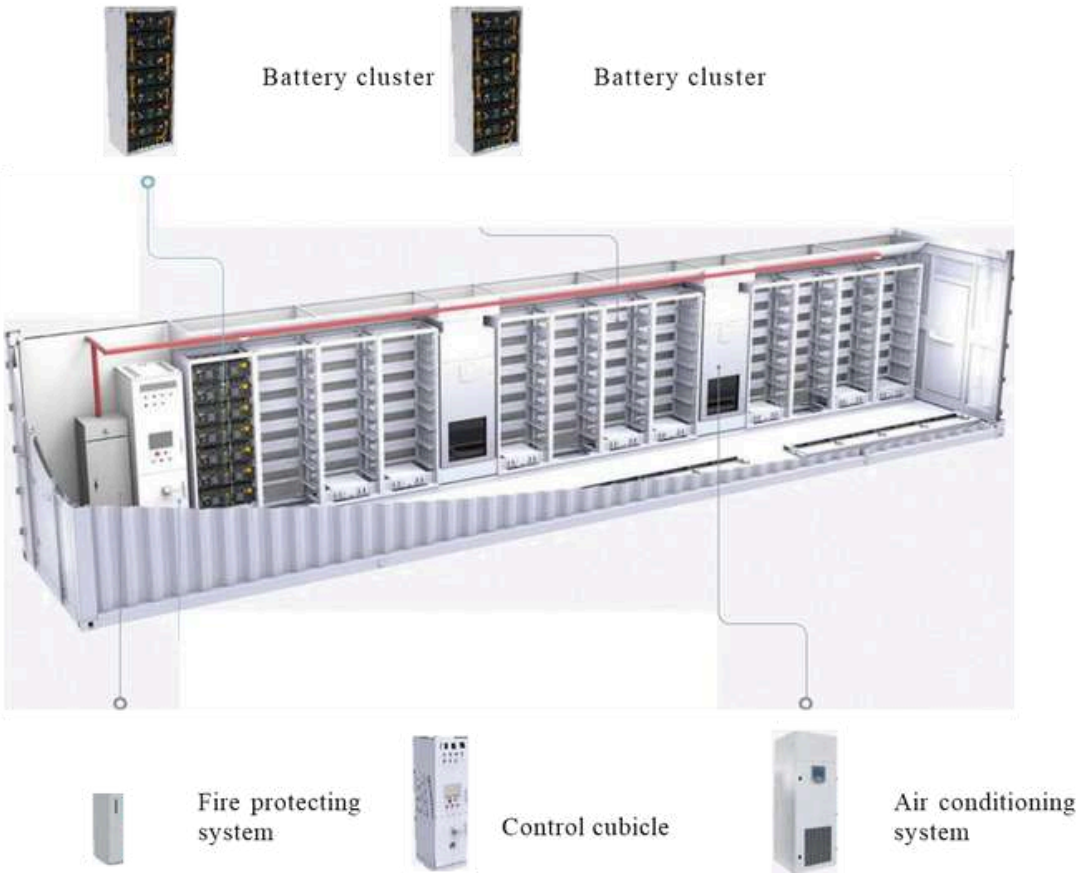
STRUCTURE

The container energy storage system is an integrated energy storage system that incorporates multiple subsystems, such as the LFP battery, battery management system, energy storage bidirectional converter, gas fire-extinguishing systems, environmental control system, EMS energy management systems, and dispatch control terminal, in a standard container.



FEATURES

- Modular design and linear expansion of battery units.
- A customized battery management system providing complete measurement and protection functions.
- Fault-graded processing mechanism to respond to preset fault scenarios.
- DC grid connection logic blocking control ensures the grid-connected operation of multiple clusters of batteries.



ENERGY MANAGEMENT SYSTEM (EMS)

The EMS works with lithium battery energy storage systems, especially those suited to distributed energy storage integrated cabinets. Real-time monitoring, panoramic analysis, and advanced control functions meet the needs of comprehensive operation monitoring. Intelligent safety analysis and dynamic panoramic analysis ensure the safe, reliable, and stable operation of the energy storage system.

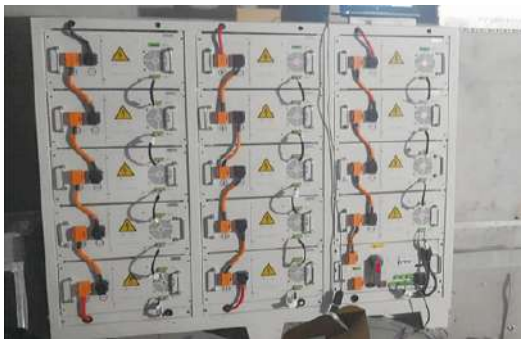
ENERGY CLOUD

Aoqiang Group provides customers with one-stop overall solutions that save energy, reduce carbon, reduce costs, and increase efficiency. In wind and photovoltaic power generation, energy storage resources, microgrids, and charging station automobile scenarios, an energy digital platform that achieves unified coordinated control is realized.

ENERGY MANAGEMENT SYSTEM (EMS)
ENERGY CLOUD

INDUSTRIAL & COMMMERCIAL ENERGY STORAGE PROJECTS

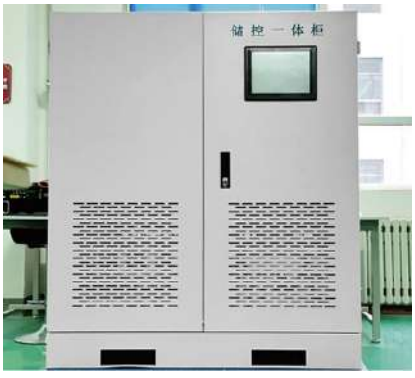
PROJECT APPLICATION




400 kWh Zhejiang Zhuxiaohui Comprehensive Energy Storage Project


20 kW/ 50 kWh Pv Energy Storage Project of a university in Hebei Province


200 kWh Beijing Demonstration Photovoltaic Energy Storage Project

30 kW/ 50 kWh Hebei Province Power Grid Project

CENTRALIZED ENERGY SYSTEM

PROJECT APPLICATION

100 MWh Gansu Province Energy Storage Project

120 MWh Jiangsu Province Energy Storage Project

120 MWh Guangdong Province Energy Storage Project

150 MWh Inner Mongolia Energy Storage Project

KEEP IN TOUCH

傲强集团

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