



Illuminate The World Empower The Future

Huaping Smart Information Technology (Shenzhen) Co., Ltd





CONTENT

01

Company
Introduction
P2

02

Balcony
Solar System
P8

03

Residential
Solar System
P11

04

Integrated
House
P15

05

Space Capsule
P18

06

Carport
P22

07

Solar Storage
and Charging
P24

08

Heavy Truck Battery
Swapping Station
P28

09

Emergency
Energy Storage
Truck
P34

10

Mining Energy
Solution
P36



Company Introduction



HUAPING GROUP

Huaping group. (stock code: 300074) is a well-known video product and application provider in China. It masters core technologies such as video processing, video and audio encoding and decoding, and network adaptability. It is committed to providing users with leading video and audio communication products and professional smart city industry visualization application solutions through the industry-oriented innovative application of video + technology, promoting the innovation of business models in various industries and improving the level of intelligence in people's lives.

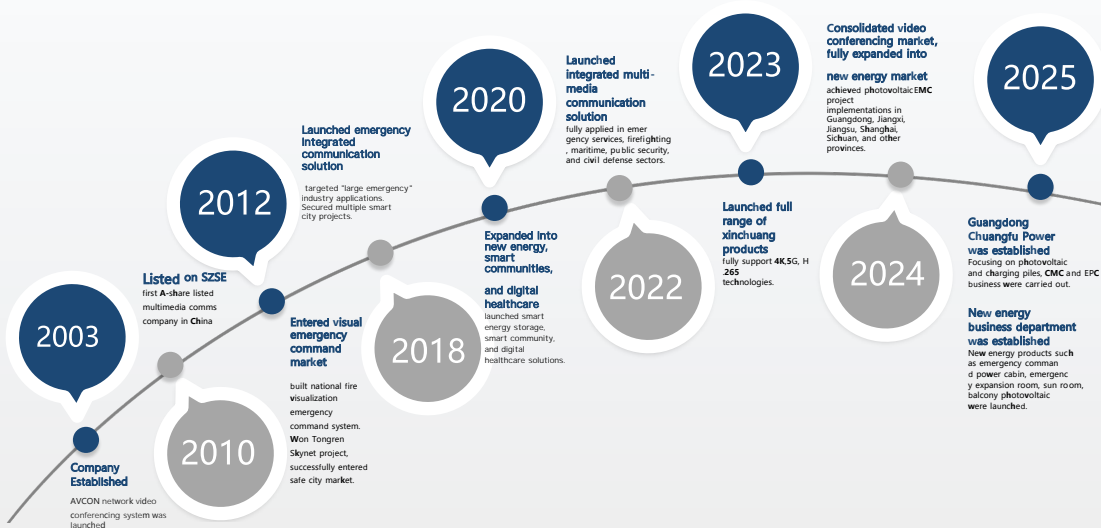
Huaping has successfully laid out new energy and smart cities while stabilizing the video market, and launched new industry solutions for smart energy storage and smart communities.

The first multimedia communication company listed on A-STOCK market in China

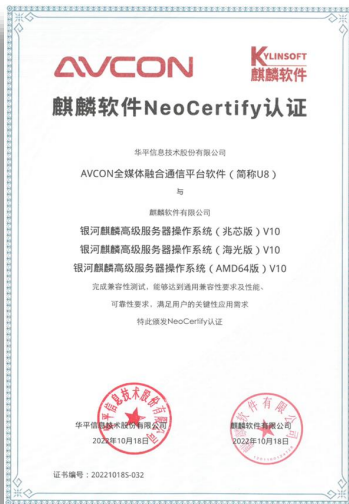
The leading provider of visual command and dispatch platform in China

One-Stop Provider of clean energy solutions











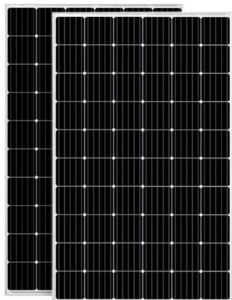
Main Products

Balcony Solar System

- ✓ Environmentally Friendly
- ✓ Save on electricity bills
- ✓ Easy installation
- ✓ Dropshipping







Product Advantages

- The photovoltaic system has a long life and is easy to maintain, requiring only regular cleaning of the panels
- The system has a simple structure and is quick to install, without the need for large-scale renovations
- It does not occupy the ground or roof, making full use of space.

Product Specifications

Maximum Power	430W
Power tolerance	3%
System voltage	22VDC
Maximum input current	12.5A*2
Output rated voltage	230VAC
Output rated frequency	50Hz
Weight	60kg
Cell arrangement	6*18
Open circuit voltage (V)	40.95V
Short circuit current (A)	13.41A
Packing size	175*117*12cm
Packing quantity	260套
STC: Light 1000W/m ² Module temperature 25°C AM=1.5	

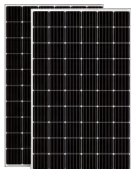
Residential Solar System

- ✓ Policy Subsidy
- ✓ Emergency backup
- ✓ Save on electricity bills
- ✓ Environmental protection and emission reduction



Product Advantages

- Produce green and environmentally friendly clean energy and reduce dependence on the power grid
- Provide backup power during power outages to enhance power supply reliability
- Reduce dependence on fossil fuels and reduce carbon emissions
- Utilize peak and valley electricity price differences to reduce electricity expenses



N TYPE TOPCON BIFACIAL SOLAR PANEL

Max Module
Efficiency 22.64%+

Positive power
tolerance(0~+5w)

Reduced hot spot risk
with optimized design

Higher energy yield
with lower temperature



THREE PHASE HYBRID INVERTER

100% unbalanced
output, each phase

High voltage battery
higher efficiency

AC couple to retrofit
existing solar system

Support storing
energy from diesel



SOLAR POWER SYSTEM INVERTER

High voltage battery
higher efficiency

DC couple and AC couple to retrofit
existing solar system

6 time periods for battery
charging/discharging

Support storing energy
from diesel generator



Product Name	AV-3KW-HY	AV-5KW-HY	AV-10KW-HY
Solar panels550W	6PCS	10PCS	20PCS
DC disconnect switch	1PCS	2PCS	3PCS
Home inverter	AVC-3K-SG04LP1-EU	AVC-5K-SG03LP1-EU	AVC-10K-SG04LP3-EU
Wall-mounted lithium iron phosphate battery	5Kwh	5Kwh	10kwh
DC Cable4mm	100m	200m	400m
AC disconnect switch	1PCS	1PCS	1PCS
MC4 Connectors	10Pairs	10Pairs	10Pairs
Installing the system	Customized products based on roof/ground installation		
Photovoltaic installation tools	1Set		

Product Name	AV-15KW-HY	AV-20KW-HY	AV-30KW-HY
Solar panels550W	30PCS	42PCS	63PCS
DC disconnect switch	4PCS	6PCS	9PCS
Home inverter	AVC-5K-SG03LP1	AVC-10K-SG03LP1	AVC-10K-SG04LP3
Wall-mounted lithium iron phosphate battery	15kwh	20kwh	30kwh
DC Cable4mm	600m	800m	1000m
AC disconnect switch	Customized products based on roof/ground installation		
MC4 Connectors	1Set		



Packing List

Complete solar solutions ready for installation. Cost-effective and easy to distribute,

Hybird 3-30KW



30

Years
Photovoltaic panels



15

Years
Installing the system



10

Years
Inverters and
Chargers



10

Years
battery

Photovoltaic mounting system

Mounting rails and rail splicing kits: A16005 & SUS304 bolts.

Mid-end clamps: 35, 40, 45, 50mm/L foot pitch hangers & hangers

Bolts optional

Cable clamps and tie straps (optional) Ground clamps and bolts (optional)



DC cable and MC4 connector

Cross section: 4 mm², 6 mm² optional
Rated voltage: 600VDC (UL)/1000VDC (TUV)
Rated current: 55A, 70A
Color: Black for STD, red optional. Service life: <25 years



DC and AC circuit breaker

IP rating: IP66
Rated voltage: 1000VDC
Connection type: M20, M25, MC4
Rated current: 16A, 20A



Photovoltaic tools

Wire and cable cutters and strippers,
MC3 MC4 compressors
MC4 connector assemblies
Removal tools



Photovoltaic Integrated House

✓ Energy saving

✓ Environmental friendly

✓ Comfort

✓ Fast





name	700 double-wing expandable house	2200 double-wing expandable house
Dimensions (transportation)	5900*70*2480mm	5900*2250*2480mm
Size (extended)	5900*4880*2480mm	5900*6350*2480mm
Appearance	White/Gray/Black	White/Gray/Black
layout	1 room and 0 living room	2 bedrooms and 1 living room
bathroom	/	Include
kitchen	/	Include
Support facilities	Electrical systems, sockets, switches, lighting fixtures	

Rooftop solar photovoltaic

Module type	Flexible components	Glass components
Maximum power	320W	450W
Power tolerance	±5	±3
Open circuit voltage	39.6VDC	41.25VDC
Maximum operating voltage	34.5VDC	34.21VDC
Short circuit current	10A	1362A
Dimensions	1790-890-1.8mm	1736-1134-30mm
Operating temperature	-30°C-+85°C	-40°C-+85°C
Weight	47kg	23.5kg

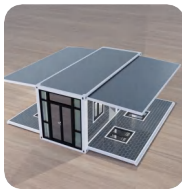
STC: Light 1000w/m Module temperature 25°CAM=1.5



Step 1



Step 2



Step 3



Step 4



Step 5

Space Capsule

✓ Flexible deployment

✓ Environmental protection and energy saving

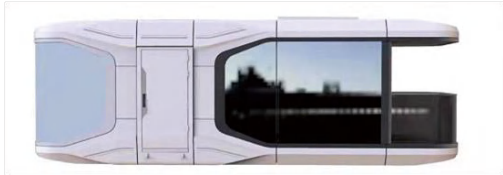
✓ Intelligent facilities

✓ Unique design and experience

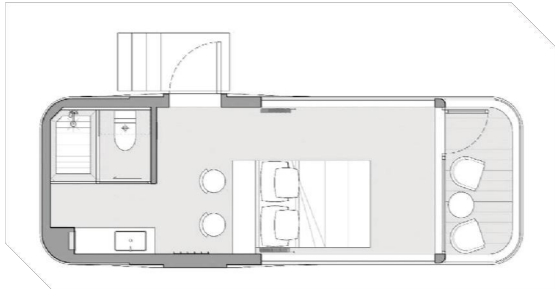
✓ Emergency and temporary accommodation plans



Product Model: K2

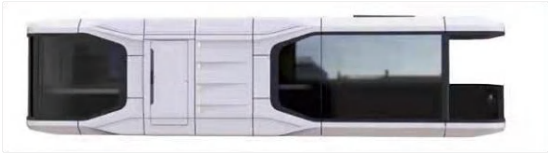


Product size: Length: 8.5M Width: 3.3M Height: 3.2M
Building area: 28.0m²

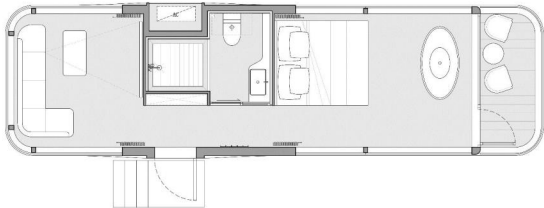




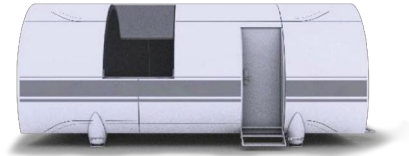
Product Model: K3



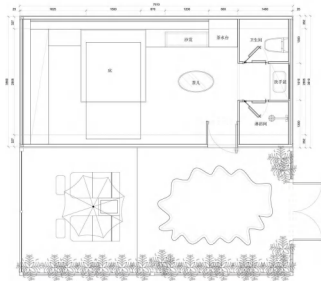
Product size: Length: 11.5M Width: 3.3M Height: 3.2M
Building area: 38.0m²



Product Model: K5



Product size: length: 7.5M width: 3.6M height: 3.2M
Building area: 27.0m²



Solar Parking Shed



Clean Energy



Save money

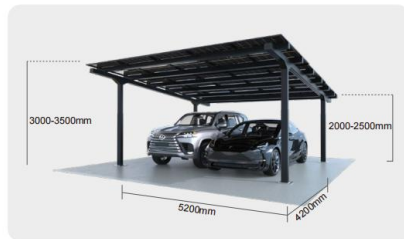


Stable structure



Flexible layout





	Single	Double
Power Output	4.815 kW	8.025 kW
Carport Structure Length	6500 mm	6500 mm
Carport Structure Width	3000 mm	5200 mm
Carport Peak Height	3000-3500 mm	3000-3500 mm
Carport Clearance Height	2000-2500 mm	2000-2500 mm
Solar Panels	Polaris 535W x 9PCS	Polaris 535W x 15PCS



Super fast charging

Fast charging: 5 minutes of charging, 120 kilometers of range

Normal fast charging

Stable charging, fully charged in 30 minutes , easy cruising range

AC slow charging

For home use, 7 hours charging, protect your car battery





Energy storage cabinet



Photovoltaic panels



Fast charging pile



Super charging pile



Battery detection



Car Wash



Lounge



Bathroom



Massage Chair



Coffee machine



Unmanned vending machine



Boot screen



Welcome Light



SaaS

Cloud Product

Charging Products



APP/Mini Program



Private Cloud APP/Mini Program



Platform connectivity API



SAAS (Charging Management)



OMS (Merchant operation management)



OSM (One-stop marketing platform)



CPOP (Private charging operation management)

Local Service



Star Service APP



SCIM (Cloud Installation)



SCEM (Engineering cloud)



OMC (Smart Operation)

Energy Products



ET (energy trade)



EM (energy management)



VPP (Visual power plant)

PaaS

Host Center

EaaS-1

Charging business center

Charging service | User center | Invoice service | Activity Service | Invoice Invoice | Prompt Service | Remark Service | Settlement Service | Interconnection Protocol analysis | Operation and maintenance service |

EaaS-2

Energy Business Center

Energy Control | Energy consumption analysis | Energy Strategy | Calculation Service | Scheduling Service | Load Forecasting | Photovoltaic forecast | Trade forecast |

EaaS-3

Data algorithm center

Data warehouse and analysis | Precision marketing model | Intelligent pricing model | Charging safety model | Battery health assessment model |

IaaS

Basic Service



IOT (Internet of Things)



Server



Storage



Network



OpenAPI

Edge Level

Equipment



Charging facility



Photovoltaic



Power Storage



Power Control



video equipment



Parking lane gate



Parking lock



Electric vehicle

Heavy truck charging and swapping station

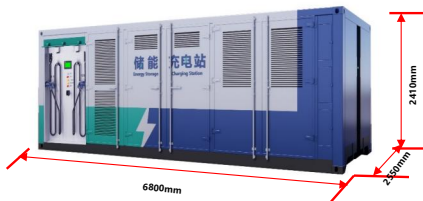
✓ Efficient energy replenishment

✓ Fast battery replacement

✓ Improve operational efficiency

✓ Extend battery life





Emergency energy storage power station parameters

Cell Type	LFP-3.2V-314Ah
Rated power[kw]	100kw
Output Power(kw)	120 (single shot), 480 (total)
Battery rated capacity	1044kwh
Nominal voltage[V]	665.6V
Voltage range[V]	582.4 ~ 748.8V
Charge and discharge rate	0.5CP
Weight of a single battery pack	~ 330kg
Total battery pack weight	~ 6600 kg
Charging temperature[]	0~50
Cycle life	6000 Times
Number of charging guns	4 (liquid cooling)
Voltage stabilization accuracy	±0.5%
Steady flow accuracy	±1%
Fire protection system	Support PACK-level, cluster-level, and box-level fire protection
System communication interface	CAN/Ethernet/RS485/4G

Heavy truck charging and battery replacement

Position	3+1	4+1	5+1	7+1	11+1	12+2
Maximum number of battery replacements per day	96	120	144	180	220	330
(units)Average daily power exchange (kWh)	28800	36000	43200	54000	66000	99000
Daily maximum income (yuan)Application Scenarios	12960	16200	19400	24300	29700	44550
Application scenarios	MINI station limited by space			Conventional Station	Expansion Station	Dual channel station
Note: It takes 60 minutes to fully charge a 400KWh battery; 5-8 minutes to replace the battery; the battery replacement service fee is 0.45 yuan/KWh						



Automatic battery swap station power 240-320KW



The roadbed must bear at least 60 tons of load



Automatic battery swap station power 240-320KW



Charging area power 240-320KW



Power distribution control cabinet capacity 2000-2500KVA



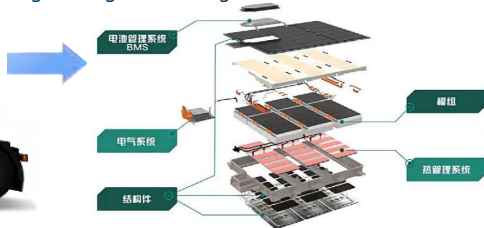
Transformer (converts 10KV DC power from the grid to 280V DC power)



Inverter for reverse power transmission

Key battery pack components

Battery pack = battery module + cooling system + battery management system (BMS) + battery box shell and bracket + high voltage/low voltage interface



Lithium



cell



Modules



PACK



Electric heavy truck



Charging and swapping stations

CTB Battery

In order to reduce power loss in winter, a thermal management system can be installed inside to maintain the battery temperature, but the loss is still slightly higher than under normal management. The system installation cost is about 3,000 yuan, and the system can save 3,000 yuan in electricity bills each year.

Provide one-stop heavy truck battery replacement service, and realize asset monitoring, Intelligent scheduling and route planning through the cloud platform

"People-vehicle-station-battery-grid" five-in-one smart service platform

Battery Bank Cloud Platform

- Full life cycle management
- Intelligent charging and discharging strategy
- Battery traceability

Charging and swapping cloud platform

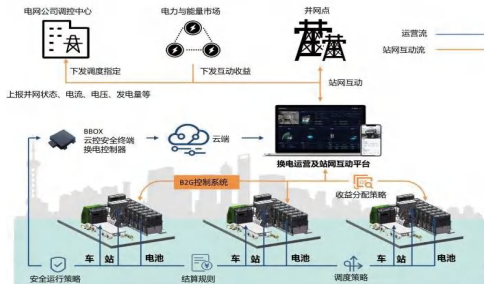
- Charging and swapping operation
- Intelligent operation and maintenance
- Financial management
- Payment and clearing integration

Vehicle Operation Cloud Platform

- Vehicle-driver-fleet-settlement
- Energy consumption analysis
- Load rate analysis
- Visual management of operations



Supporting efficient vertical linkage between vehicle, station, battery and power grid



Improve operational efficiency by approximately 15%



Emergency Energy Storage Truck

- ✓ Applicable in multiple scenarios
- ✓ Supporting power grid peak load regulation
- ✓ Modular design for easy expansion
- ✓ Flexible and quick response
- ✓ Supporting electric vehicle charging





Emergency energy storage power station parameters

Cell Type	LFP-3.2V-314Ah
Rated Power[kw]	100kw
Output Power(kw)	120 (Single Gun) ,480 (Total)
Battery Rated Capacity	1044kwh
Nominal Voltage[V]	665.6V
Voltage Range[V]	582.4 ~ 748.8V
Charge and Discharge rate	0.5CP
Weight of single battery pack	~330kg (1P52S)
Weight of all battery clusters	~6600 kg (5P208S)
Charging Temperature[]	0~50
Cycle Life	6000 Times
No. of Charging Guns	4 (liquid cooling)
Volatage regulation Accuracy	±0.5%
Current Regulation Accuracy	±1%
Fire Protectiion System	Support PACK-level, cluster-level, and box-level fire protection
System Communication interface	CAN/Ethernet/RS485/4G
Protection Level	IP55
Size	6800*2550*2410mm
Weight	~20T

Mining Energy Solutions

- ✓ Improve energy efficiency
- ✓ Reduce energy consumption
- ✓ Environmental protection and emission reduction
- ✓ Optimizing energy



Integrated Energy Management Platform

Access wind power, photovoltaic, energy storage, charging piles, and transformer data to monitor the operating status of all equipment in real time

Realize the regulation of energy storage, charging piles, and other loads in various scenarios, increase the proportion of clean energy, and reduce energy consumption and energy costs

On the basis of reducing its own carbon emissions and energy costs, it interacts with the large power grid, participates in green power trading and demand-side response, and obtains additional income

