

Shenzhen Consnant Technology Co., Ltd.

We focus on electricity and energy

2026



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Company Profile



Shenzhen CONSNANT Technology Co., Ltd. is a professional manufacturer engaged in research, development and production of Online UPS, Outdoor Power & Cabinet, Lithium ESS, and power quality products in China.

Our factory has obtained the ISO 9001, ISO 14001 and OHSAS1800. The core products have all passed China Energy Saving CQC Certification, TLC certification, and European CE certification. We are proud of the fact that most of our company's engineering staff is well-qualified and has gained experience in relevant fields more than 15 years. In order to protect your equipment from electrical supply network instability, we offer innovative solutions that obtain higher availability systems, improve efficiency and offer flexible solutions to meet specific needs and range of application.

If you start work with us, you will not only get high-quality product at reasonable price, but also maintain the profitable conditions for further years.

We are located in the world-famous High-Tech center – Shenzhen city, China. Our factory is close to Bao'an International airport. Welcome you to visit us!

Company Profile

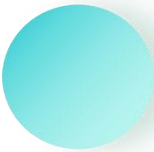


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Company Development History

2015

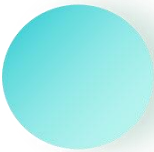
- Registered in April.
- UPS was developed and start to market in June.
- Obtained the ISO9000, ISO14000 in November.
- Reached cooperation with the domestic operators in December.

2017

- Listed as government energy-saving products supplier in January
- Won the bid for Hefei public security system communication project in May.
- Started Ghana solar kiosk project.
- Awarded the National High-tech Enterprise Certification in October.

2016

- Modular UPS was ready in February.
- Started the export business in March.
- Got the CE certification in September.
- Opened sales branches in West Africa and Australia.



Company Development History

2018

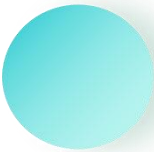
- Participated in R&D of the power supply system for the world's first auto-driving molten iron transportation train.
- Multiple sets of big capacity UPS launched in Africa package factory.

2020

- Successfully delivered the first auto-driving molten iron transportation train project in September for Bao Steel Group in September.
- Won the Kuwait national traffic light project in October.

2019

- Won national expressway way ETC gantry power supply project in March.
- Won Huizhou high-speed railway power supply project in September.
- Established partnership and signed contract with Baosteel Group In October.
- Obtained a number of national software certificates.



Company Development History

2021

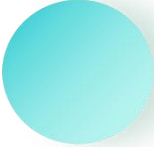
- Established partnership and signed contract with Wuhan Iron and Steel Corporation In June.
- Invested Shenzhen Solarcarry Technology Co., Ltd to establish a joint venture factory for solar inverter business.

2023

- In domestic, we increased Jiangsu Nanjing Iron Steel and Liaoning Anshan Iron Steel two major projects;
- Overseas, we acquired important telecom projects in the African market

2022

- Established partnership and signed contract with Baotou Iron and Steel Group in January.
- Established partnership and signed contract with Ansteel Group in April.
- Attended the 2022 China Solar PV Industry Development Summit Forum in August.



Company Development History

2024

- Industrial UPS achieved significant results in the Russian market and African market.
- Obtained Specialized and Sophisticated Enterprise Certification , and honored as “Little giants” by government in December.

2025

- Telecommunication equipment cabinets are exported in large quantities to African markets such as Ethiopia, Gabon, and Chad;
- A new market for outdoor power supplies has been gained for the Almaty SR10 optical fiber project in Kazakhstan.
- Numerous sets of outdoor UPS provided for the Panama Canal.
- Established partnership and signed contract with Hunan Valin Xiangtan Iron & Steel Co., Ltd. In October.

Enterprise Honor



High-tech

Enterprise Certification

Enterprise Honor



Specialized and Sophisticated

Enterprise Certification

Honored as "Little giants",

produce new and unique products.

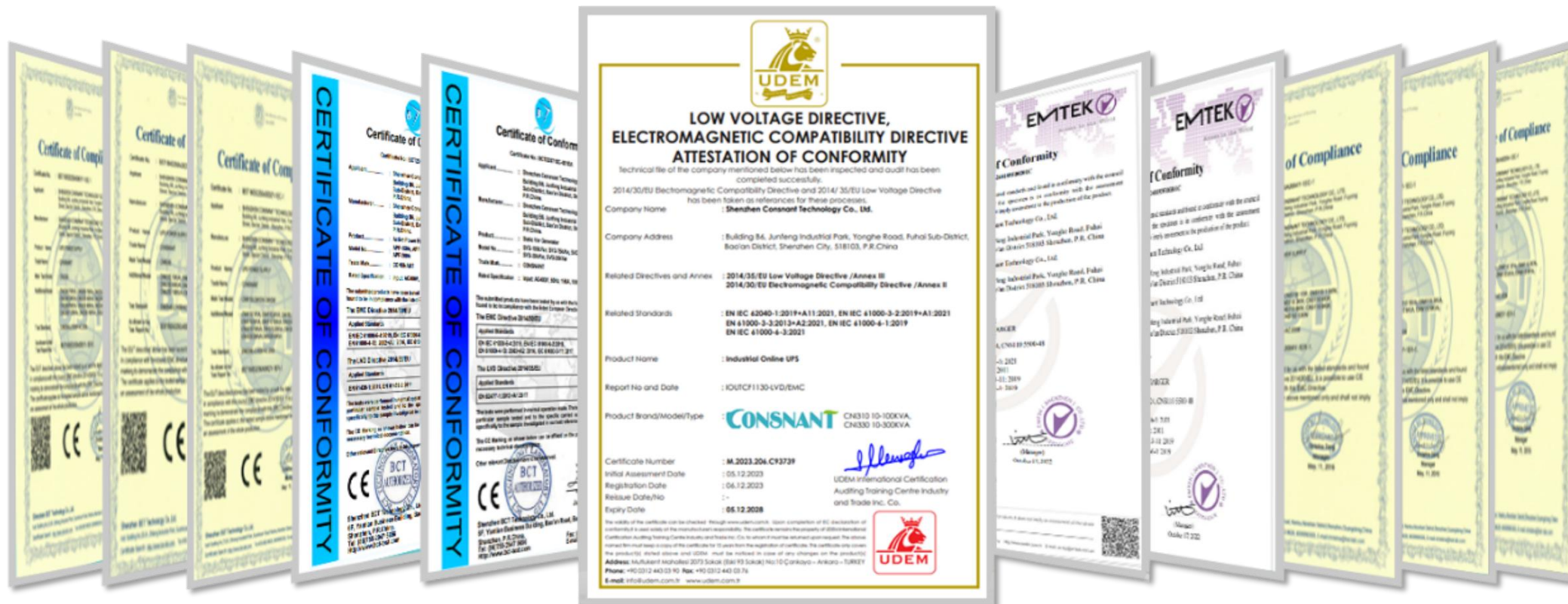
Enterprise Honor

ISO Certification



Enterprise Honor

CE Certification



PART-02

UPS Products

- High Frequency Online UPS
- Low Frequency Online UPS
- Industrial Online UPS
- Modular Online UPS



High Frequency Online UPS (1-20KVA)



Tower



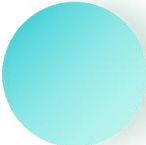
Rack Mount

APPLICATION:

- ✓ Computer
- ✓ Network
- ✓ Data Centers
- ✓ Telecom equipment
- ✓ Precise instrument
- ✓ Intelligent device

MAIN FEATURES:

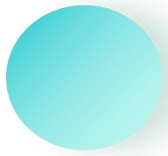
- Zero transfer time;
- Three level Topology, Digital control, multi-stage charging, higher reliability;
- Wide mains range of 90V~300VAC, 40~70Hz;
- Adopts digital PFC control technology, input power factor > 0.99;
- 1-12A settable charger
- Output power factor up to 1.0;
- Efficiency 95.5% ;
- Intelligent Fault Recording.



1-20kVA Online UPS——Model and DC voltage

Multiple voltages are available, meeting the different needs of customers .

Tower model	Rack model	DC Voltage 1	DC Voltage 2
CNH110 1K	CNH110R 1K	24VDC	36VDC
CNH110 2K	CNH110R 2K	48VDC	72VDC
CNH110 3K	CNH110R 3K	72VDC	96VDC
CNH110 6K	CNH110R 6K	192VDC	240VDC
CNH110 10K	CNH110R 10K	192VDC	240VDC
CNH310 10-20K	CNH310R 10-20K	192VDC	240VDC



Low Frequency Online UPS (6-400KVA)



APPLICATION:

- ✓ Servers
- ✓ Local area network(LAN)
- ✓ Data Centers
- ✓ Industrial Processes
- ✓ Medical Equipment

MAIN FEATURES:

- Standard output isolation transformer;
- Possible to work on parallel to 6 units;
- Large touch LCD screen with multifunctional language;
- Suitable for a variety of loads and has high overload capability;
- Ultra-wide input voltage immunity range for harsh grid environments.

Typical Application



Typical Application



Chinese People's Liberation Army Marine Corps Hospital



Zhejiang Diaphragm Processing Factory



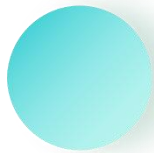
Shenzhen Jihuashengyu Hospital



• Shenzhen Longda Expressway



• Plastic Factory in Thailand



Industrial Online UPS (IP42 Level)



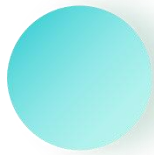
CNI310 3ph/1ph 10-100KVA
CNI330 3ph/3ph 10-300KVA

APPLICATION:

- ✓ Petroleum
- ✓ Chemical Industry
- ✓ Gas and Oil
- ✓ Power Station
- ✓ Water (desalination, treatment)
- ✓ Industrial production and process control
- ✓ Transportation (railway, airport, high speedway, tunnel, shipping)

MAIN FEATURES:

- 12 pulses SCR rectification and IGBT inverter technology ;
- Input and output double isolation;
- Bypass isolation transformer and voltage stabilizer available;
- Customized battery voltage 110/220/384/432/480VDC for optional;
- 7" touchable HMI screen with multi-language (English, Chinese, Russian, French...)
- Intelligent self-diagnosis function and ultralong history event recording function
- Up to 14 programmable output dry contact signals and 2 input dry contact signals (optional). Each dry contact can be compatible with 32 alarm information.
- Optional protection level IP20, IP30, IP31, IP41, IP55...



Industrial Online UPS 10-80KVA Structure (IP42 level)

- Modular structure is easy to install and maintain
- Friendly for ODM partner

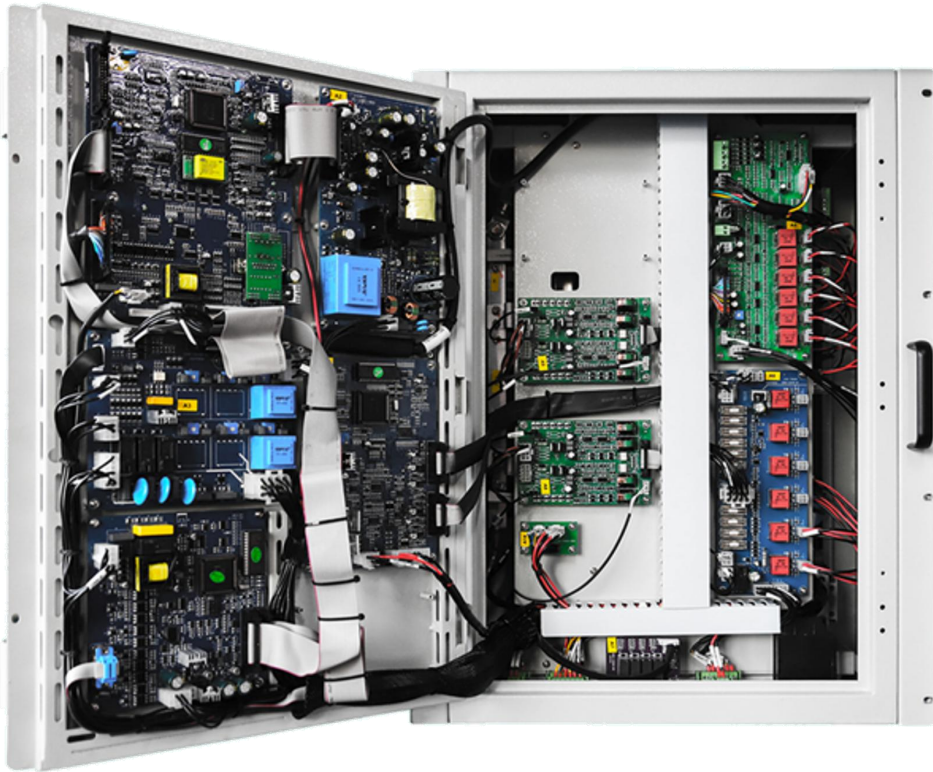


UPS 10-40KVA(W*D*H):600*800*2050mm

UPS 60-80KVA(W*D*H):800*800*2050mm

Power Module (CNIR) Introduction

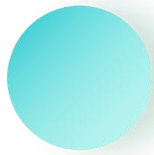
- The power module integrated a complete set of power boards and control board
- Can be disassembled from the whole unit, very easy to maintain
- Adopt bottom-top ventilation structure



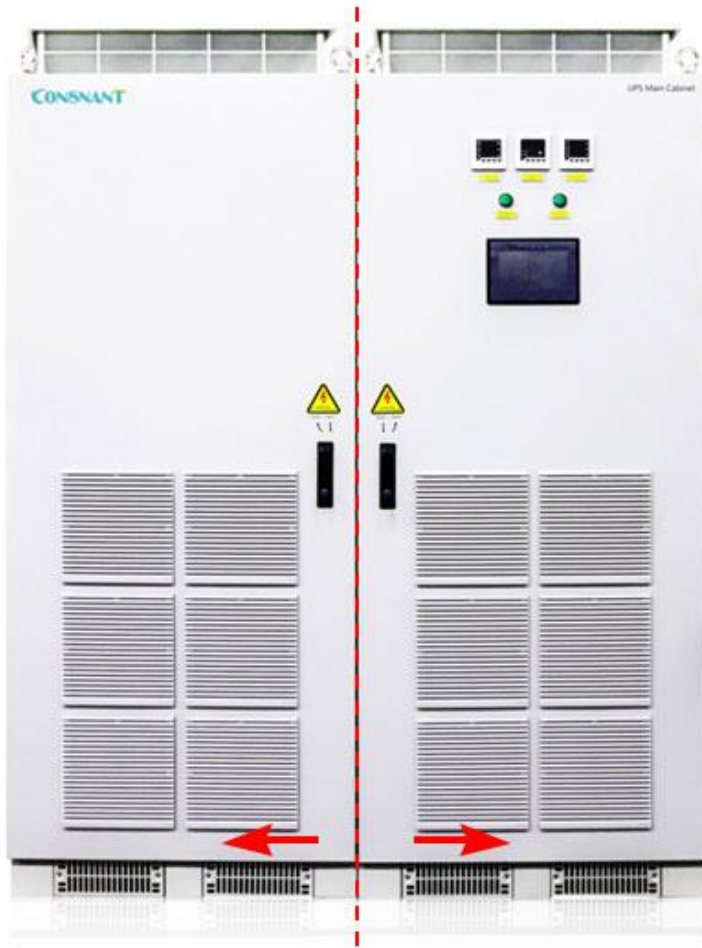
Module 10-40KVA(W*D*H):440*350*651 mm



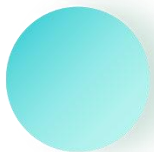
Module 60-80KVA(W*D*H):640*350*651 mm



Industrial Online UPS 160-300KVA Structure (IP42 level)



* The main UPS cabinet can be split into two parts to transfer, friendly to install in small Spaces.



Bypass Cabinet Structure

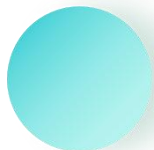
(Isolation transformer + Voltage regulator + Power distribution)

*For specific functions, can be customized according to requirements



- ① Feeder Voltmeter
- ② Feeder Ammeter
- ③ Feeder Frequency Meter
- ④ Bypass Input Voltmeter
- ⑤ Bypass Output Voltmeter
- ⑥ Input Indicator Light
- ⑦ Output Indicator Light
- ⑧ Bypass Input Switch
- ⑨ Bypass Output Switch
- ⑩ Feeder Loop
- ⑪ Feeder Loop
- ⑫ Feeder Loop
- ⑬ Bypass Voltage Regulator
- ⑭ Feeder Master Switch
- ⑮ Bypass Isolation Transformer

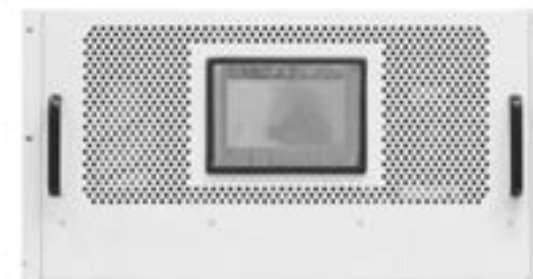
100kVA



Electricity Special Industrial Online UPS (IP30 level)

- Compatible work with DC Power System 110VDC/220VDC
- Modular design, power module capacity range from 10-100kVA

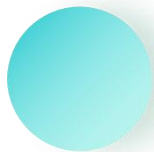
- | | |
|--|--------------------------|
| Input Isolation Transformer ⑩
(it is behind the power distribution panel) | Output Voltmeter ① |
| Battery Switch ⑪ | Output Ammeter ② |
| Input Switch ⑫ | Output Frequency Meter ③ |
| Bypass Switch ⑬ | Input Indicator ④ |
| Output Switch ⑭ | Output Indicator ⑤ |
| Maintenance Switch ⑮ | Power Module ⑥ |
| SPD ⑯ | Cooling Fan ⑦ |
| Input / Output Terminal Block ⑰ | Output Transformer ⑧ |
| | Shunt Reactor ⑨ |



Power Module (front pannel)



Power Module (rear pannel)



Outdoor Industrial Online UPS (IP55/56 Level)

IP 5 6

Dustproof level

Waterproof level

5



Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to eight hours.

5



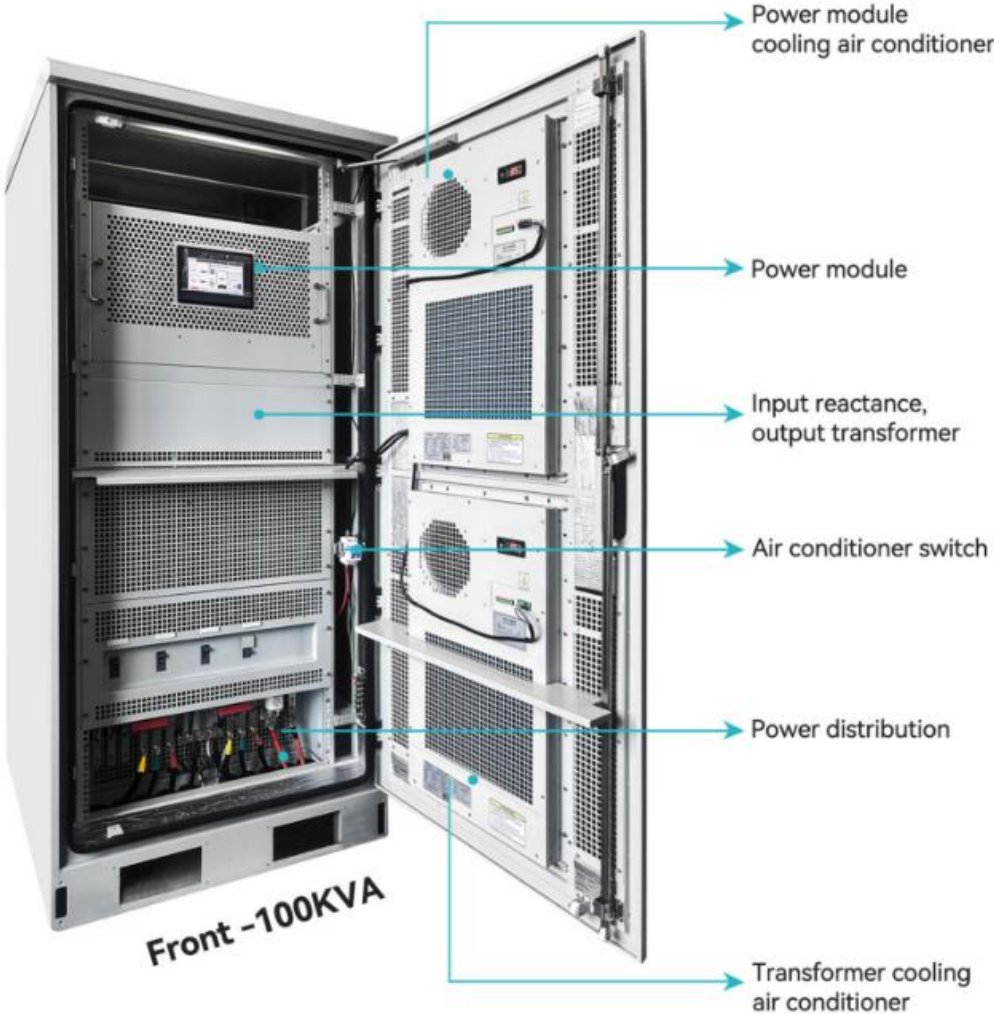
Protected against jets of water. Limited ingress permitted.

6



Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.

IP (INGRESS PROTECTION) RATINGS GUIDE

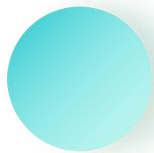


Typical Application



Typical Application





Modular Online UPS (50-1200KVA)



6-Modules System



12-Modules System (600KVA)



12-Modules System (1200KVA)

APPLICATION:

- ✓ Server
- ✓ Data Center
- ✓ Bank and Financial Center
- ✓ Commercial Building
- ✓ Hospital System
- ✓ Transportation System etc.

MAIN FEATURES:

- N+X redundancy modular design, hot-swappable
- Power module capacity 50KW/100KW
- Overall efficiency high to 97%
- Output power factor 1.0
- Can connected to completely unbalanced loads
- Centralized bypass

- Battery number can be 30~50pcs optional
- Battery capacity and charge current can be configured via LCD
- UPS working in parallel can share batteries
- 10 inch large touch LCD, multiple languages display, providing rich ups status info, alarm info, fault info etc.

Typical Application

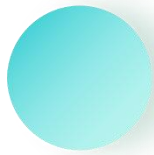


PART-03

Outdoor Power Solution

- Outdoor UPS
- Outdoor Solar Power System
- Outdoor Telecom Power System
- Embedded Telecom Power System
- Hybrid Telecom Power System
- Outdoor Cabinet





Outdoor UPS (1-10KVA)



APPLICATION:

- ✓ Telecom
- ✓ Traffic Lights
- ✓ Local Area Network
- ✓ CCTV

INSTALLTION:

Pole-Mount, Wall-Mount, Floor-Stand

MAIN FEATURES:

- The protection level of natural conditions can reach IP55;
- Dustproof, waterproof, anti-theft, lightning protection, special insulation layer and heat dissipation function, separate battery compartment;
- Wide input voltage and frequency range to adapt harsh outdoor grid, and to meet the user's requirement of the fuel generators;
- Optional accessory (Air-conditioner / Heat-exchanger / Heater)

Typical Application: Telecommunication



Typical Application: Traffic lights and road surveillance



Outdoor Solar Power System



CNW4850L SERIES

APPLICATION FIELD:

- ✓ Traffic Light
- ✓ Road Monitor Camera
- ✓ Other Outdoor Field

INSTALL WAY:

- Pole Mount
- Wall Mount
- Floor Stand

MAIN FEATURES:

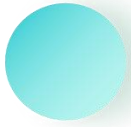
- The whole system integrate an off grid MPPT solar inverter module, lithium battery module and PDU;
- pure sine wave output;
- It comes with double input: Mains and PV, Support lithium battery access;
- Four charge modes: PV only, Mains priority, PV priority, PV and mains hybrid charge;
- Modular design is easy to maintain;
- IP55 protection level.

Typical Application



Outdoor Solar Inverter 3.5kw with 25.6VDC 50Ah lithium battery pack. applicable for road camera.

Location: Dubai. UAE



Outdoor Telecom Power System



OD-TRS-2460/OD-TRS-48100 SERIES

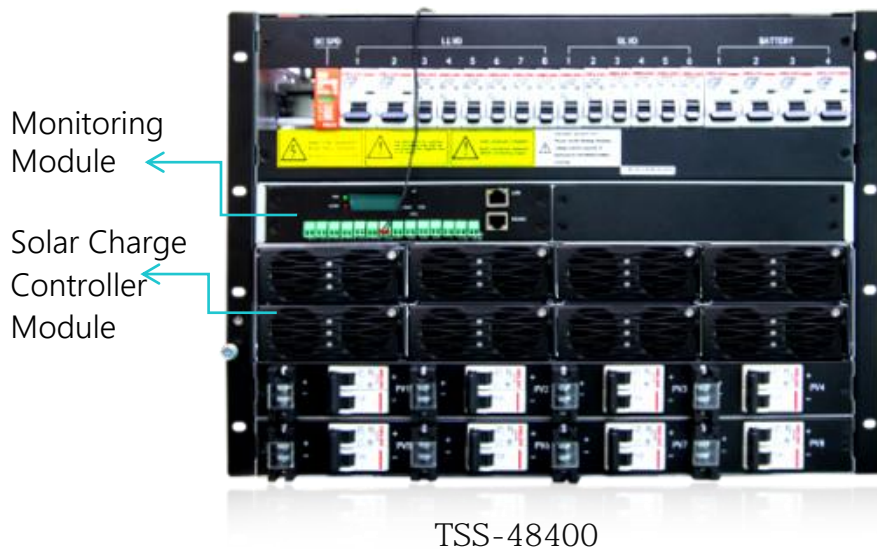
SPECIFICATION:

- ✓ Capacity: 24VDC 60A / 48VDC 100A
- ✓ Input Frequency: 45~65Hz
- ✓ Output Current: 30A*2 / 50A*2 (one master and one backup)
- ✓ Lithium Battery 25.6VDC / 100Ah / 51.2VDC / 50Ah)

MAIN FEATURES:

- The system is composed of rectifiers, dynamic monitoring module, optical distribution frame, power distribution parts and lithium batteries;
- Pole-mounted or Wall-mounted;
- Modular design, provide flexibility for future expansion, and easy for maintain;
- Redundancy design for high reliability;
- With RS232, RS485, LAN communication.

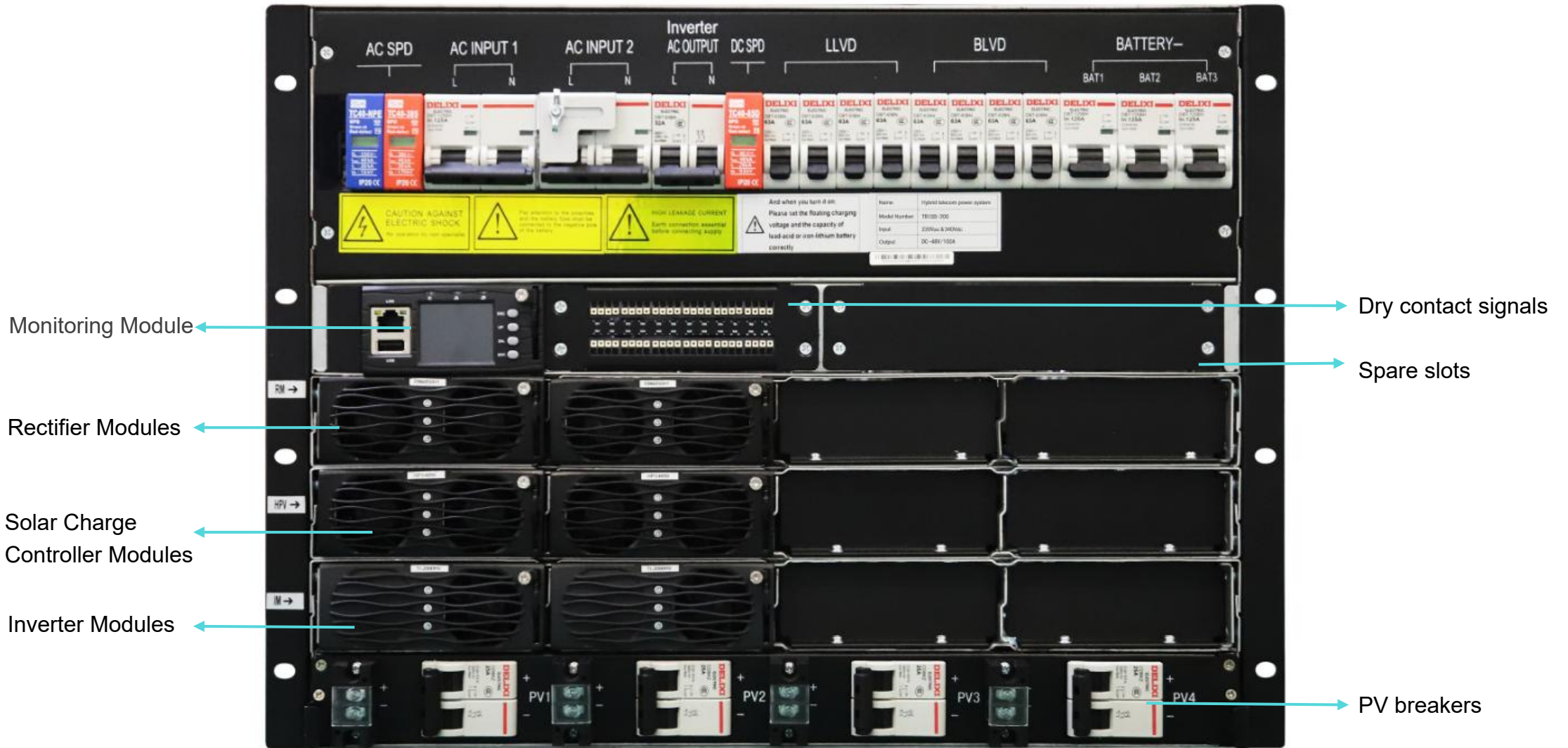
Embedded Telecom Power System (MPPT or MPPT+Rectifier)



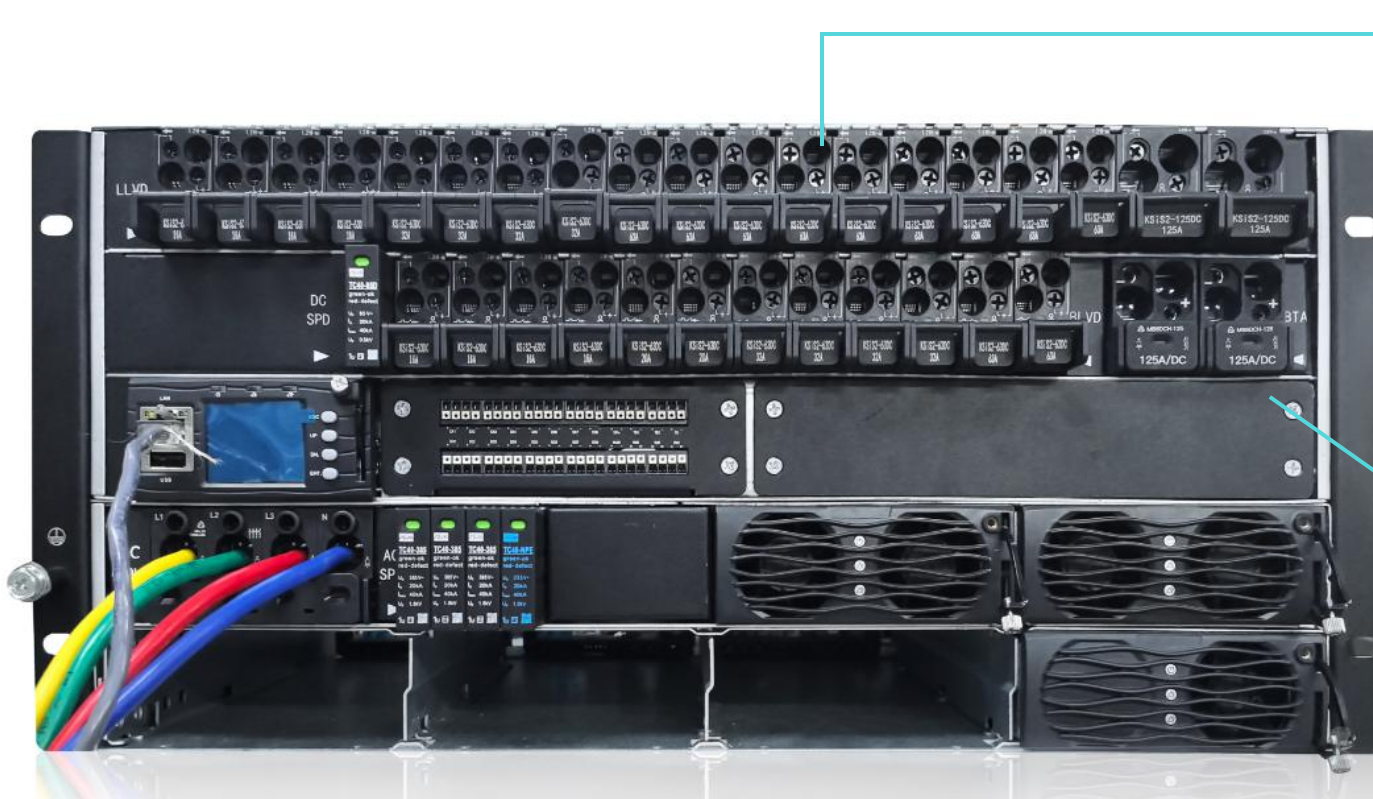
Model	Configuration	Input Voltage Range	Output Voltage	Output Current (MAX)	Output Power (MAX)	Modules Quantity
TSS-48400	Solar Charge Controller Module	120~425VDC	-54.5VDC	400A	24KW	1~8
TRSS-48300	Solar Charge Controller Module	120~425VDC	-54.5VDC	300A	18KW	1~6
	Rectifier Module	85~300VAC	-53.5VDC	300A	18KW	1~6

The system monitoring module has battery management function and power supply system monitoring function. If configure appropriate sensors, It can realize environmental monitoring. And also provide an extra spare monitoring slot. It have RS485 communication interface to realize remote monitoring and unattended operation.

Embedded Telecom Power System (MPPT+Rectifier+Inverter)



Embedded Telecom Power System with Intelligent Circuit Breaker



Intelligent circuit breaker 63A



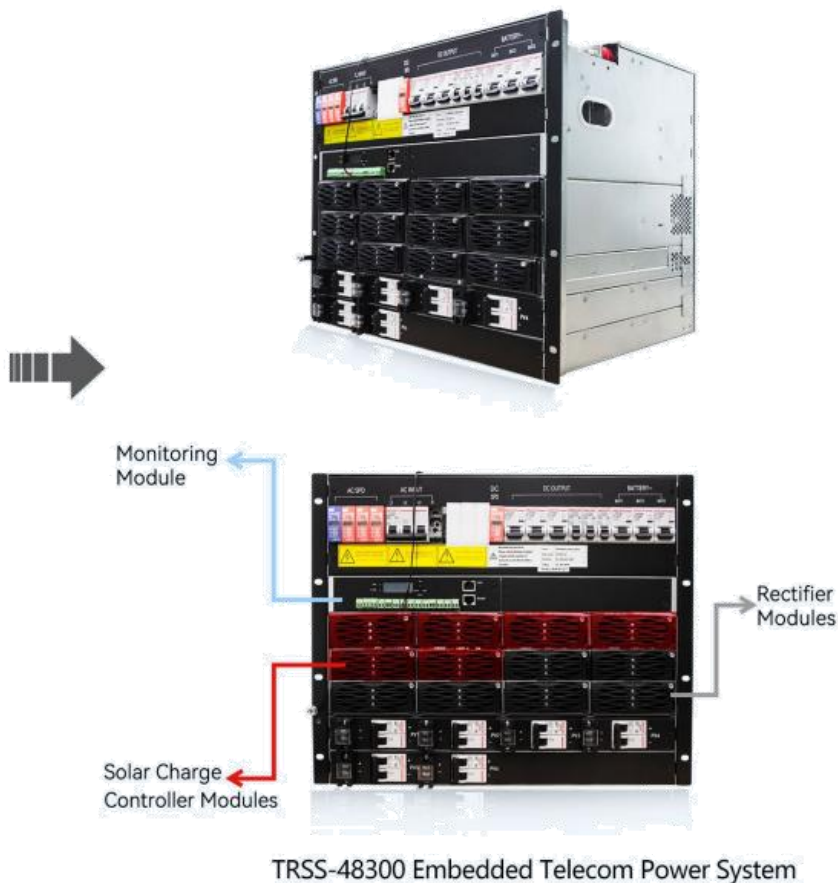
Intelligent circuit breaker 125A

The intelligent circuit breaker mainly used in telecommunication equipment and cabinets, providing **remotely ON/OFF**, supports intelligent functions, including collecting data information such as electric energy, power, voltage, current, etc., supports query of data information and set parameter information through RS485 communication, and is designed with power four remote functions (**remote control, telemetry, remote signaling, remote adjustment**).

OD-TRSS Hybrid Telecom Power System (Rectifier +MPPT)



OD-TRSS-48300
Telecom Power System



TRSS-48300 Embedded Telecom Power System

SPECIFICATION:

- ✓ System Capacity: Max. 48V 300A
- ✓ Output Voltage : -54.5Vdc
- ✓ Output Current : 300A (MAX)
- ✓ Output Power: 18KW (MAX)
- ✓ Rectifier Modules Input Range: 85VAC~300VAC
- ✓ PV Input Range: 120VDC~425VDC
- ✓ Rectifier Module Quantity: 1~6PCS
- ✓ Solar Charger Controller Module Quantity: 1~6PCS

FEATURES:

- Multi-energy complementary power supply solution: solar energy, mains electricity;
- Modular design is easy to maintain;
- Energy saving management mode: solar energy priority, mains (generator) supplement, battery backup operation;
- Flexible monitoring networking and remote monitoring control;
- IP55 protection level.



OD-TRISS Series Hybrid Telecom Power System

(Rectifier + MPPT + Inverter)



Model	Configuration	Input Voltage Range	Output Voltage	Output Current(Max)	Output Power(Max)	Modules Quantity
TRIS-48 (Rectifier+ MPPT+ Inverter)	Rectifier Modules	85~3000VAC	-53.5VDC	300A	16KW	1~4
	Solar Charge Controller Moduls	120~425VDC	-54.5VDC	200A	12KW	1~4
	Inverter Modules	176~265VDC	-53.5VDC	200A	8KW	1~4

Hybrid Telecom Power System with intelligent circuit breaker



Application - Lesotho Telecom Project



Project Introduction:

We supply more than 10 complete systems: solar panels , solar racks and cabinets of Hybrid telecom power supply cabinet + user equipment cabinet + battery cabinet,

200A rectifier modules +200A MPPT solar charger controller modules +24PCS 2V 1000Ah batteries.

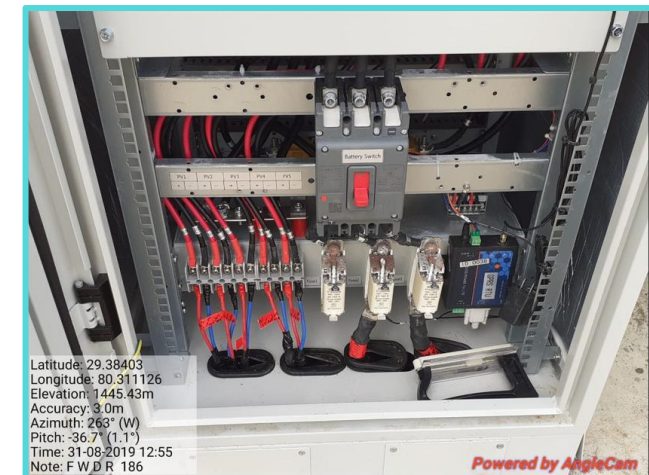
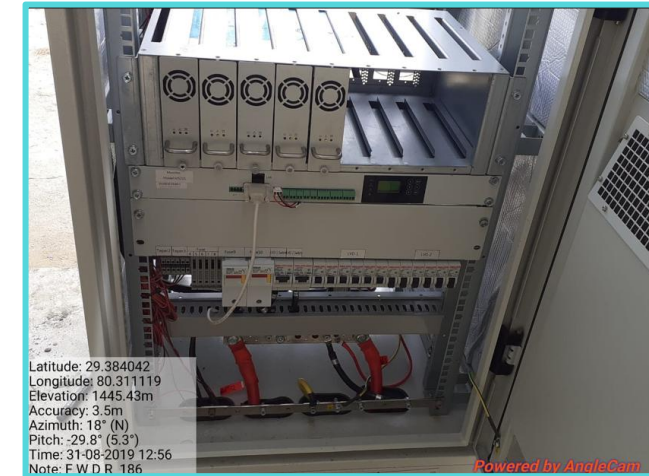
Application - Kazakhstan Telecom Project



Project Introduction :

Construction of the SR10 optical fiber communication line in the Almaty region 150 sets

Application - Nepal Telecom Project



Project Introduction:

Photovoltaic energy storage station in Nepal.

We supply 300A telecom supply system cabinet with 50A*6pcs high voltage solar charger controller, converter solar energy to storage in the 48vdc battery system for backup the telecom equipments.

Application - Gabon Telecom Project



Project Introduction:

In the year 2019, we supplies tens units of outdoor Battery Cabinet (lithium battery) / 51.2VDC 100AH x 8pcs with 48VDC rectifier power supply for the telecom site in Gabon.



Application - Baosteel Project



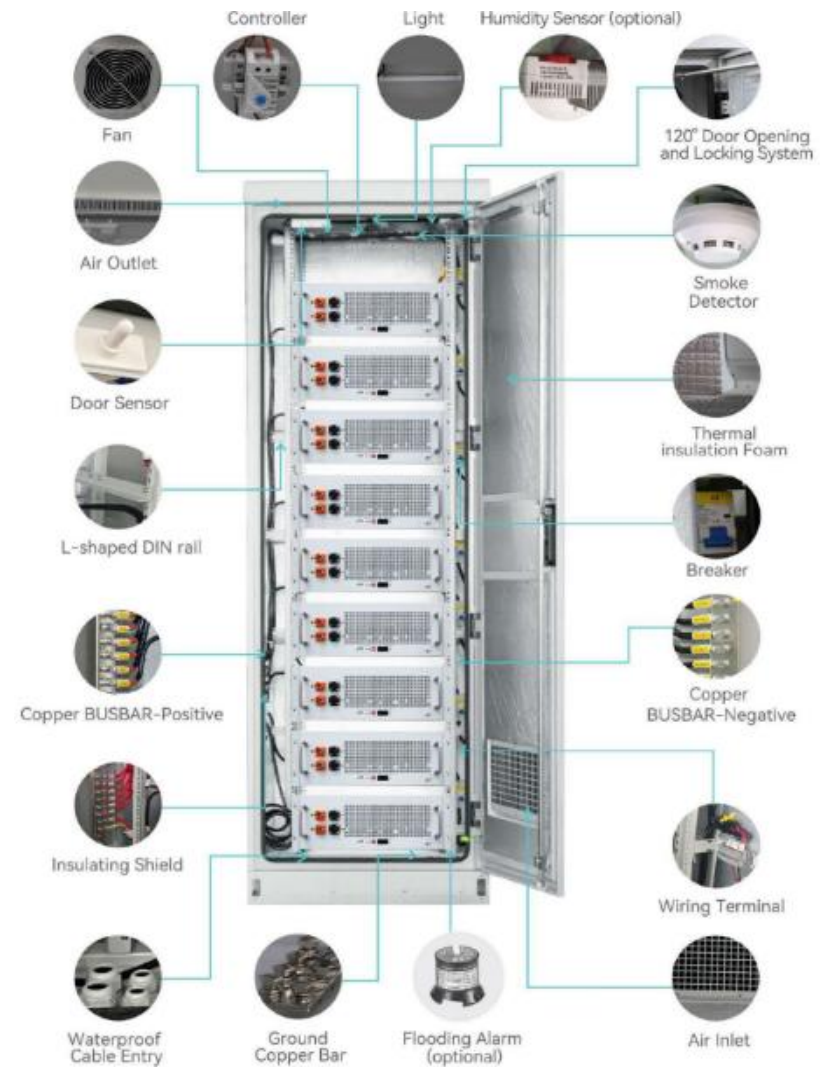
Project Introduction:

Our outdoor power system built-in lithium battery packs applied to the auto-driving molten iron transport train to provide power guarantee for the train's PLC system. Single phase AC or DC input, DC 24V and AC 220V double output.

Outdoor Cabinet



Outdoor Equipment Cabinet



Outdoor Lithium Battery Cabinet

Production Photo



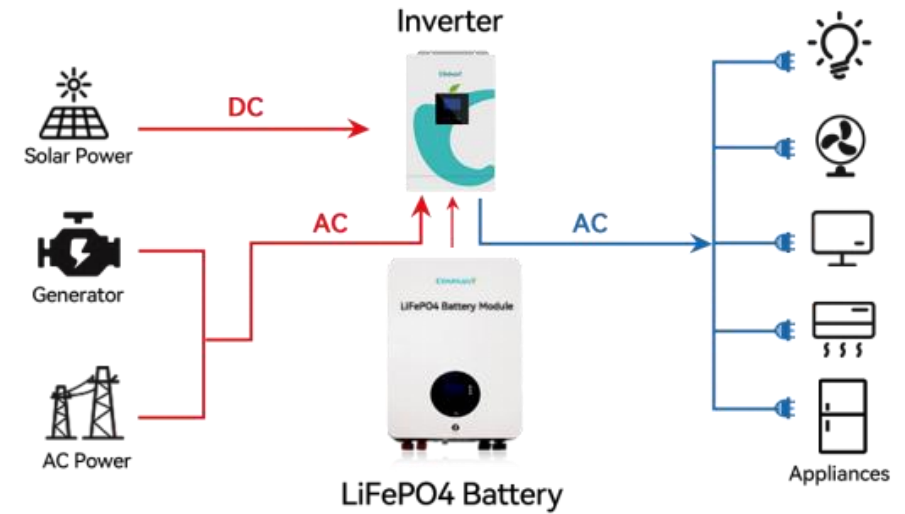
PART-04

Energy Storage System

- Hybrid Solar Inverter
- Lithium Battery Pack
- All-in-one Home Energy Storage System



Hybrid Solar Inverter 3KW/5KW/11KW



Main Features:

- a. AC/solar charging off grid hybrid inverter;
- b. LED/LCD display, Enhanced functions setting via LCD,
Man-machine intelligent design;
- c. Built-in MPPT solar charger controller;
- d. LCD shows the solar capacity;
- e. AC charging also can be closed;
- f. AC/DC priority modes can be set;
- g. Generator restart signal. (Dry contact);
- h. 3 times peak power, Strong loading capacity;
- i. Overload, Output short-circuit protection.

Lithium Battery Pack (Wall Mount)



Product Features:

- High output, high energy density, high cycle life, small internal resistance
- Lighter weight, about 40% of the weight of lead-acid battery
- The positive and negative plate gate is made of lead-calcium multicomponent alloy, corrosion resistance, no pollution
- High-sensitivity safety valve can effectively improve the safety of the battery at work
- With communication function, R232,R485, CAN, real-time and historical data query
- Up to 15 units can be connected in parallel
- 4000 times cycle life time

Application :

- Home energy storage system
- Solar Power System

Lithium Battery Pack (Rack Mount)



Capacity:

51.2VDC 50Ah/100Ah/150Ah/200Ah

Product Features:

- Rack design, easy installation and front maintenance;
- Equipped with communication function. protection function for over charge. over discharge and over temperature, and battery equalization technology;
- Use in parallel for more large capacity;
- The system uses environmental-friendly lithium iron phosphate batteries and is equipped with high performance BMS to manage the battery cell efficiency;

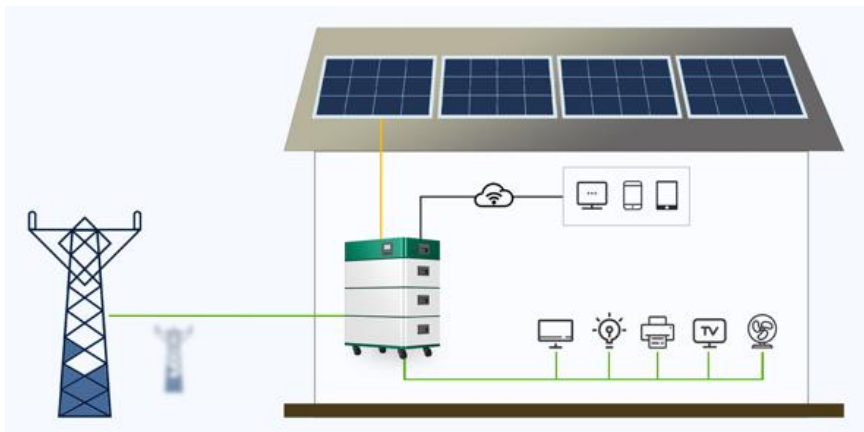
Application:

- Photovoltaic power generation
- communication base station
- UPS, etc.

Residential Energy Storage System



SYSTEM WORKING DIAGRAM:



MAIN FEATURES:

- All in one design;
- Pure sine wave inverter;
- To maximum utilize PV power, high precision 100A MPPT charger is built-in;
- Charging by grid function is enabled;
- Built-in Lithium-in battery with BMS to get longer battery life;
- Battery & inverter, MPPT expandable;
- Easiness of installation and maintenance.

Typical Application



Outdoor solar inverter built-in lithium battery pack for traffic light

Solar Inverter
Module



Lithium
Battery Pack



Solar Inverter and energy storage for home



PART-05

Power Quality Products

- Active Power Filter
- Static Var Generator
- Hybrid SVG-C Compensation System





APF/SVG



Wall Mounted type



Rack-mount type

Application:

- ✓ Telecommunication IDC Room
- ✓ UPS Systems
- ✓ Central Air Conditioning System
- ✓ Municipal Facilities
- ✓ Electrified Railway and Urban Rail Transit industry
- ✓ Petrochemical and Natural Gas Industries
- ✓ Power Industry
- ✓ Industrial-type Large-capacity Load
- ✓ Coal industry
- ✓ Textile Industry
- ✓ Paper Mill
- ✓ Automotive Industry
- ✓ Photovoltaic material manufacturing
- ✓ Glass Production
- ✓ Metallurgy
- ✓

Rated Capacity:

APF	400V : 35A 50A 75A 100A 150A 200A 690V: 100A
SVG	400V: 35kVar 50kVar 75kVar 100kVar 150kVar 690V: 100kVar 120kVar

Technical Performance:

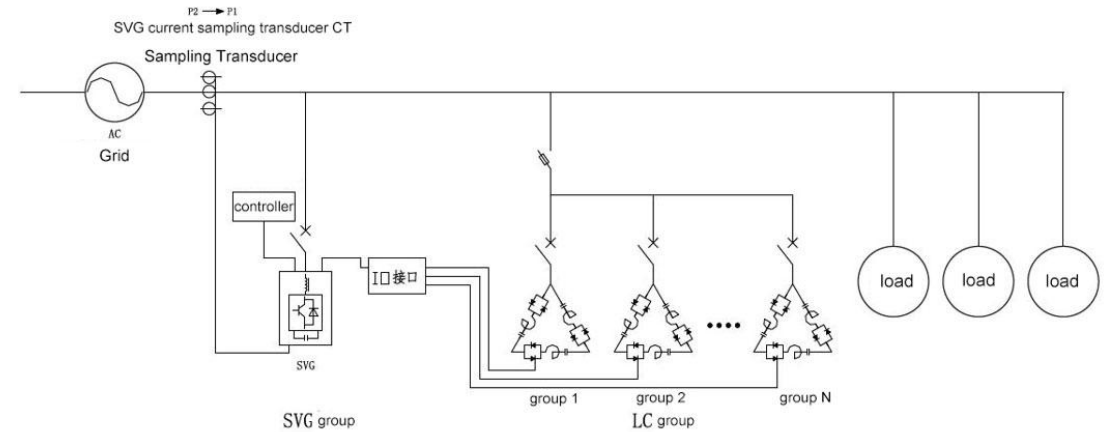
Electric Specification	
Input voltage Range	-20% ~+20% (400V) ; -20% ~+10% (690V)
Frequency	50/60 Hz (-10% ~+10%)
Wiring	3P3W / 3P4W
Harmonic Compensation Function	
Filter Range	2~50 times option
Harmonic filter capacity	better than 97% at rated load
Reactive Power Compensation Function	
Power Factor Correction Range	-1~+1
Three-phase Unbalance Compensation Function	
Unbalalce kVar and kW compensation	99%

Hybrid SVGC Compensation System

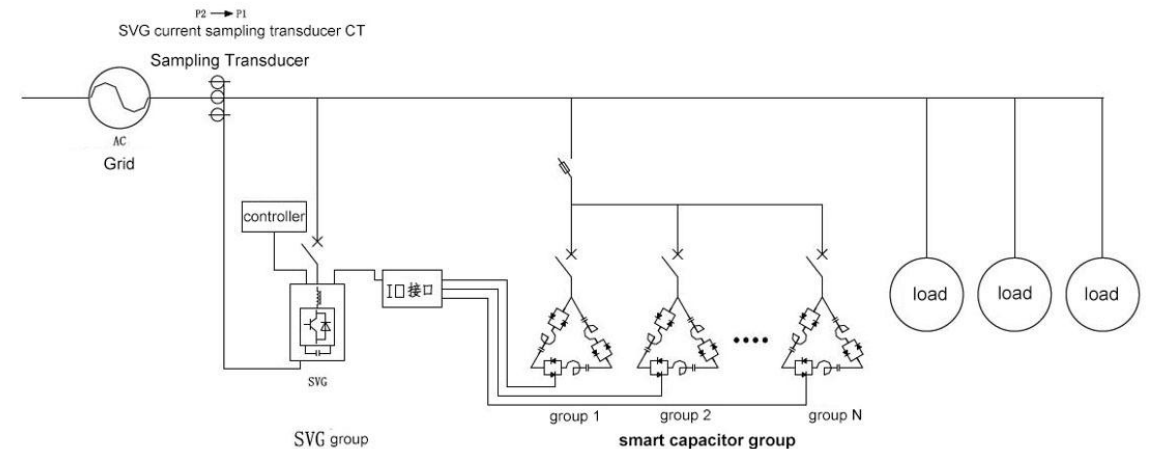


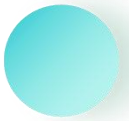
The SVGC compensation system combines the advantages of both dynamic compensation SVG and static compensation capacitors. The relatively stable reactive power demand part in the system can be statically compensated by capacitors; the fast-changing reactive power demand part in the system can be quickly compensated by SVG compensate. The system can not only meet the needs of users for reactive power compensation, but also greatly reduce equipment costs.

SVG + Ordinary Capacitor



SVG + Smart Capacitor

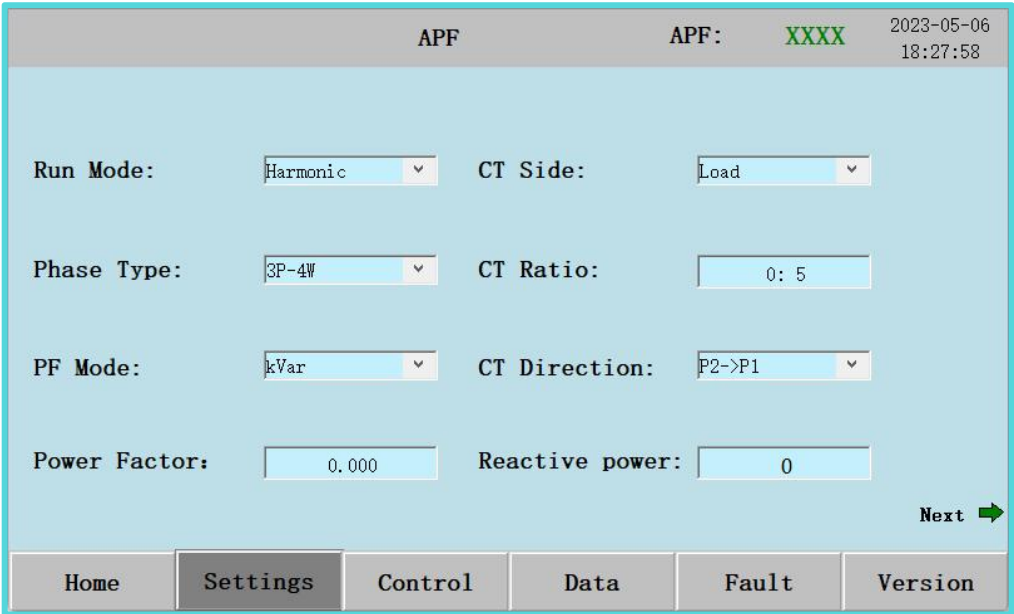
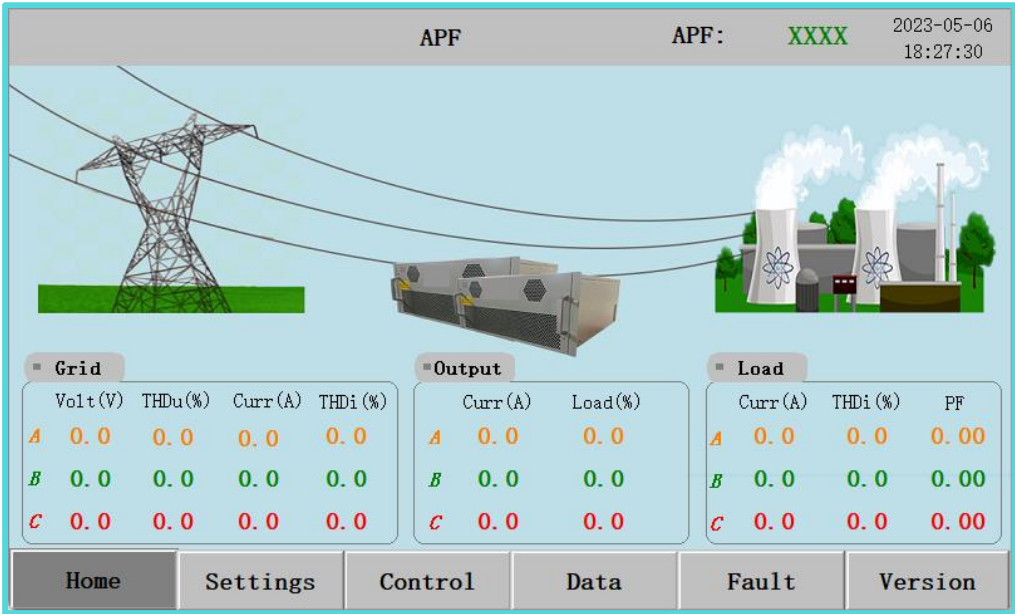




LCD and Communication

1) Provide 7-inch touch color human-machine interface

- *Set the working mode and related parameters ;
- *Real-time display of power parameters such as : power grid side/output side/load side: voltage, current, power factor, THDi and other important parameters as well as support charts, waveforms and other forms of presentation.
- * Real-time alarm and history record



2) With RS232/RS485 communication interface and standard RS485, CAN bus communication protocol, RJ45, USB, dry contact (EPO , DI, DO)...

Typical Application



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