



member of the Duna Autó Group

PRODUCT CATALOGUE



member of the Duna Autó Group



Welcome to the world of Duna Watt, where we showcase the latest innovations in modern energy efficiency and renewable energy. Meet our brands, leading players in the energy industry who have partnered with us to offer our customers the highest quality products and solutions.

Sunnic's (CATL) electric car chargers and integrated energy storage solutions enable efficient use of solar energy in an environmentally friendly way.

Electrly, as one of the world's leading electric vehicle charger manufacturers, offers a high-quality and reliable product range that includes a variety of residential and commercial charging models.

As a leading battery manufacturer, **BYD** offers reliable energy storage systems for the storage and use of energy from renewable sources. This helps to ensure sustainable energy supply and reduce costs. It also combines energy storage and electric car charging in its integrated systems.

PotisEdge's energy storage systems are perfect for industrial and commercial use with their modular design, promoting energy independence and reducing the carbon footprint.

Keeway Energy's innovative devices maximise the efficiency of using electricity from renewable energy sources, while **CECEP Solar's** solar panels represent the cutting edge of photovoltaic technology, providing excellent energy yield and environmental sustainability.

With our products and solutions, we aim to help our customers make the best decisions when it comes to energy efficiency and sustainability.

Discover the energy of the future with us and join us in building a more sustainable world!

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ABOUT OUR PARTNERS

Sunnic is a joint venture between CATL, the world's leading battery manufacturer, and Xiaomi. This unique collaboration combines CATL's deep expertise in battery technology and Xiaomi's innovative capabilities in smart devices to create truly innovative energy storage solutions and electric car charging stations. Sunnic aims to revolutionise solar energy by combining cutting-edge technology and design. Its solutions therefore offer simpler and more cost-effective solutions for energy efficiency and environmental protection.

Electrly is a China-based company that offers a wide range of electric vehicle charging solutions for residential, commercial, and public use. Their residential product lineup includes compact portable chargers and various wall-mounted units. The company's commercial offerings are also outstanding, featuring multiple power output options and a variety of connector and cable configurations. Electrly ranks among the top 10 electric vehicle charger manufacturers in the world, thanks to its innovative and reliable products.

BYD, one of the world's leading electric car manufacturers and a leading expert in battery energy storage systems, has a wide range of activities from battery manufacturing to electric vehicles to solar energy and electricity storage systems. With its commitment to energy efficiency and sustainability, BYD is at the forefront of the electric mobility and green energy revolution. Its solutions and technologies are contributing to global carbon neutralization efforts.

PotisEdge is a fast-growing company active in the fields of energy storage systems, battery and fuel cells. It holds 233 patents and copyrights and has an annual growth rate of over 120% in the last three years. The company has a production capacity of 31 GWh planned for 2024. Their mission is to be at the forefront of smart energy production to help neutralise global carbon dioxide with a business philosophy based on innovation, responsibility and mutual benefit.

Keeway Energy is a Budapest-based subsidiary of the Keeway Group. The company's global network covers 102 countries, ensuring its presence in Europe and around the world. Keeway Energy's main objective is to provide complete solutions for solar PV systems as well as a wide range of high quality energy products at competitive prices.

CECEP Solar Energy Technology is known as one of the leading companies in the global solar energy industry. Its role is dominant in the development and manufacturing of solar cell technologies. As one of the largest solar cell manufacturers in China and the world, CECEP Solar plays a key role in the dissemination of renewable energy sources, contributing to the global green transition and energy sustainability.

DUNA WATT ELECTRIC CAR CHARGER, 11 KW AC

Duna Watt chargers feature state-of-the-art technology to quickly and efficiently charge electric vehicles with a Type 2 plug. Their compact design and 5 metre cable make them ideal for both home and business use. The intuitive user interface and safety features ensure smooth and safe charging. Duna Watt electric car chargers are a great choice for those who want efficient charging, safely and affordably.

- For residential use
- Two types of placement (wall or rack mountable)
- Can be installed indoors or outdoors
- Secure charging



| | |
|-----------------------|---|
| Version | CE version |
| Input voltage | 100-240VAC 50/60Hz 1 phase 400VAC 50/60Hz 3 phase |
| Output voltage | 100-240VAC 50/60Hz 1 phase 400VAC 50/60Hz 3 phase |
| Max current | 32A |
| Max power | 11KW |
| Input frequency | 50Hz / 60Hz |
| Charging interface | IEC 62196 Type 2 |
| Cable Length | 5m / customizable |
| | Working Environment |
| Safety | Overvoltage protection, undervoltage protection, overload protection, leakage protection, grounding protection, over-temperature protection, lightning protection |
| RCD | Type B |
| IP Degree | IP55 |
| Operating Temperature | -25°C~+50°C |
| Place | Indoor / Outdoor |
| | Guarantee |
| Warranty | 24 months |
| Certificate | CE |
| | Packing |
| Product Size | 240*153*83 mm |
| Net Weight | 4-6kg |
| Color | White |
| Manufacturer | Electrly |
| Category | Wall charger |

SUNNIC ELECTRIC CAR CHARGER, 11KW, 22KW AC

Sleek and modern design, fast charging, Hungarian application, smart energy management and easy to use features make it a pleasure to use. An efficient, reliable device with outstanding performance and easy installation. Sunnic electric car chargers are IP65 rated, so they can be used indoors and outdoors.

Intelligent

- Residential and business use application control

Innovative

- Tempered glass panel
- Modern design

Flexible

- Wall and pole mounted versions
- RFID authentication

Safety

- RCD Type A current protection MID certified energy meter



Mobile app

The We E-Charge mobile app in Hungarian allows you to schedule your charging session, track your charger status and many other useful functions.

| Model | SUNNIC-11kW-AC | SUNNIC-22kW-AC |
|------------------------|---|----------------|
| Input | | |
| Power Supply | 3P+N+PE | 3P+N+PE |
| Rated Voltage | 400VAC | 400VAC |
| Frequency | 50/60Hz | 50/60Hz |
| Output | | |
| Output Voltage | 400VAC | 400VAC |
| Maximum Current | 16A | 32A |
| Rated Power | 11kW | 22kW |
| User Interface | | |
| Charge Connector | Type2 | Type2 |
| Charge Cable | 5m | |
| Enclosure | Galvanized steel | |
| Front Panel | Temper glass | |
| LED Indicator | Green/Yellow/Red | |
| LCD Display | 2.7"black & white LCD | |
| RFID Reader | Mifare ISO/IEC 14443A | |
| Start Mode | Plug&Play/RFID card/App | |
| Emergency stop | Yes | |
| Communication | | |
| WiFi | Yes | |
| Ethernet | Optional | |
| 4G adapter | Optional | |
| Ocpp | OCPP, OCPP1.6 Json(OCPP 2.0 upgradable) | |
| Safety | | |
| Energy | MID certified | |
| RCD | 30mA Type A+6mA DC, | |
| Ingress Protection | IP65 | |
| Impact Protection | IK08 | |
| Electrical Protection | Over current protection,Residual current protection,Short circuit protection, Surge protection,Over/Under voltage protection, Over/Under frequency protection,Over temperature protection | |
| Certification | CE | |
| Certification Standard | IEC 62196-2, Type 2 | |
| Warranty | 2 years | |
| Environment | | |
| Installation | Wall-mount/Pole-mount(Optional) | |
| Work Temperature | -30°C~+50°C | |
| Work Humidity | 5%-95% | |
| Work Altitude | <2000m | |
| Package | | |
| Dimension | 410m x 260m x 140m (H x W x D) | |
| Net Weight | ≤11kg | ≤12kg |

SUNNIC 50-80 KW DC FAST CHARGING STATION

The Sunnic DC fast charging station is a product specifically designed for the European market, with advanced data processing, intelligent control, excellent heat dissipation and low noise levels. It is available in power ratings of 50, 60 and 80 kW. Its technical parameters comply with European DC charging standards and it is equipped with a range of protection and warning functions to ensure the safety of users and vehicles during charging.

Application options

-  Taxi
-  Bus
-  Public charging station
-  Residence community
-  Shuttle bus
-  Freight vehicles, special vehicles
-  Enterprises and institutions
-  Commercial complex



| | Items | Parameters | | |
|---------------------------------|-----------------------|-------------------------------------|-------------------|---------------------|
| Basic index | | | | |
| | Rated Power | 50kW | 60kW | 80kW |
| | Dimensions (wxdxh) | 800mm x 500mm x 1800mm | | |
| | Charging outlet | CCS2+CHAdeMO(optional), length: 5m | | |
| | HMI | 10.1 inch, color Touch Screen | | |
| | Energy meter | MID | | |
| | Installation | Ground mounted | | |
| Communication | | | | |
| | EVSE | PLC (DIN 70121: 2014-12 / ISO15118) | | |
| | Back-end protocol | OCPP 1.6 / OCPP 2.0 (upgardeble) | | |
| Method of payment | | | | |
| | Payment mode | Optional:RFID Card / POS | | |
| Input characteristics | | | | |
| | Input voltage | 400VAC±10%, three-phase+N+PE | | |
| | Frequency | 50Hz | | |
| | Power factor | >0.98 (50%~100%load) | | |
| | Harmonic | iTHD<5% | | |
| Output characteristics | | | | |
| | Voltage | DC 200~1000V | | |
| | Current | CCS2 167A max. | CCS2 200A max. | CCS2 200A max. |
| | | CHAdeMO 124A max. | CHAdeMO 125A max. | CHAdeMO 125A max. |
| | Power | CCS2 50kW max. | CCS2 60kW max. | CCS2 80kW max. |
| | | CHAdeMO 50kW max. | CHAdeMO 60kW max. | CHAdeMO 62.5kW max. |
| | Peak efficiency | >95% | | |
| | Charging way | Meantime | | |
| Environmental indicators | | | | |
| | Operating temperature | -30°C ~+50°C | | |
| | Relative humidity | 5%~95% without condensation | | |
| | Working altitude | <2000M | | |
| | Protection grade | IP54 | | |
| | Application site | Indoor/Outdoor | | |
| | Cooling method | Intelligence air forced cooling | | |
| | Noise | ≤55dB | | |
| Markings | | | | |
| | Certifications | CE, CB, UKCA, TR25 | | |
| Weight | | | | |
| | Net Weight | ≤250KG | | |
| | Gross Weight | ≤300KG | | |

SUNNIC 120-160 KW DC FAST CHARGING STATION

The Sunnic DC super fast charging station is available in 120 kW, 150 kW and 160 kW. It is characterised by high data processing, intelligent control, excellent heat dissipation and low noise levels. It offers excellent performance at high temperatures with a constant power output. It is stable, reliable and waterproof, with low standby power consumption. The output voltage is 200-1000V, so it can be used for all types of electric vehicles.

Application options

-  Taxi
-  Bus
-  Public charging station
-  Residence community
-  Shuttle bus
-  Freight vehicles, special vehicles
-  Enterprises and institutions
-  Commercial complex



| Items | | Parameters | | |
|---------------------------------|--|--|--|--|
| Basic index | | | | |
| Rated power | 120 kW | 150 kW | 160 kW | |
| Dimensions (wxdxh) | 850 mm x 610 mm x 2000 mm | | | |
| Charging outlet | CCS2+CHAdeMO (optional), length: 5 m | | | |
| HMI | 10.1 inch, color Touch Screen | | | |
| Energy meter | MID | | | |
| Installation | Ground mounted | | | |
| Communication | | | | |
| EVSE | PLC (DIN 70121:2014 12/ISO15118) | | | |
| Back-end protocol | OCPP 1.6/ OCPP 2.0 (upgradeable) | | | |
| Method of payment | | | | |
| Payment mode | Optional: RFID Card/POS | | | |
| Input characteristics | | | | |
| Input voltage | 400 VAC± 10% | | | |
| Frequency | 50 Hz | | | |
| Power factor | >0.98 (50%~100% load) | | | |
| Harmonic | iTHD<5% | | | |
| Output characteristics | | | | |
| Voltage | DC 200~1000 V | | | |
| Current | CCS2 200 A max. CHAdeMO 125 A max. | | | |
| Power | CCS2 120 kW max. CHAdeMO 62.5 kW max. | CCS2 150 kW max. CHAdeMO 62.5 kW max. | CCS2 160 kW max. CHAdeMO 62.5 kW max. | |
| Peak efficiency | >95% | | | |
| Charging way | Meantime | | | |
| Environmental indicators | | | | |
| Operating temperature | -30°C ~ +50°C | | | |
| Relative humidity | 5% ~ 95% without condensation | | | |
| Working altitude | <2000 m | | | |
| Protection grade | IP54 | | | |
| Application site | Indoor/Outdoor | | | |
| Cooling method | Intelligence air forced cooling | | | |
| Noise | ≤60 dB | | | |
| Markings | | | | |
| Certification | CE, CB, UKCA, TR25 | | | |
| Weight | | | | |
| Net weight | ≤330 kg | | | |
| Gross weight | ≤400 kg | | | |

SUNNIC 180-240 KW DC FAST CHARGING STATION

The Sunnic DC ultra fast charging station is available in 180 kW and 240 kW power outputs, further extending the high power charging options. These models are optimised for the European market, with high data processing, intelligent control, excellent heat dissipation and low noise levels. With the new power levels, Sunnic DC charging stations enable fast charging of an even wider range of electric vehicles with 200-1000V output voltage, making them ideal for all types of electric vehicles. The products offer stable operation, reliability and low standby power consumption, as well as a waterproof design and multiple safety features to ensure the safety of users and vehicles.

Application options

- Taxi
- Bus
- Public charging station
- Residence community
- Shuttle bus
- Freight vehicles, special vehicles
- Enterprises and institutions
- Commercial complex



| Items | | Parameters | |
|---------------------------------|--|--|--|
| Basic index | | | |
| Rated power | 180 kW | 240 kW | |
| Dimensions (wxdxh) | 850 mm x 880 mm x 2000 mm | | |
| Charging outlet | CCS2+CHAdeMO (optional), length: 5 m | | |
| HMI | 10.1 inch, color Touch Screen | | |
| Operating environment | Indoor or outdoor (IP54) | | |
| Energy meter | MID | | |
| Installation | Ground mounted | | |
| Communication | | | |
| EVSE | PLC (DIN 70121:2014 12/ISO15118) | | |
| Back-end protocol | OCPP 1.6/ OCPP 2.0 (upgradeable) | | |
| Method of payment | | | |
| Payment mode | Optional: RFID Card/POS | | |
| Input characteristics | | | |
| Input voltage | 400 VAC± 10% | | |
| Frequency | 50 Hz | | |
| Power factor | >0.98 (50%~100% load) | | |
| Harmonic | iTHD<5% | | |
| Output characteristics | | | |
| Voltage | DC 200~1000 V | | |
| Current | CCS2 300 A max. CHAdeMO 125 A max. | | |
| Power | CCS2 180 kW max. CHAdeMO 62.5 kW max. | CCS2 240 kW max. CHAdeMO 62.5 kW max. | |
| Peak efficiency | >95% | | |
| Charging way | Meantime | | |
| Environmental indicators | | | |
| Operating temperature | -30°C ~ +50°C | | |
| Relative humidity | 5% ~ 95% without condensation | | |
| Working altitude | <2000 m | | |
| Protection grade | IP54 | | |
| Application site | Indoor/Outdoor | | |
| Cooling method | Intelligence air forced cooling | | |
| Noise | ≤60 dB | | |
| Markings | | | |
| Certification | CE, CB, UKCA, TR25 | | |
| Weight | | | |
| Net weight | ≤440 kg | | |
| Gross weight | ≤530 kg | | |

SUNNIC 320-400 KW DC FAST CHARGING STATION

The big gun of Sunnic DC fast chargers is the Supergiant charging station. Capable of 320-400 kW, it charges electric vehicles in a very short time. Its technical parameters comply with the European DC charging standards, it has several protection and warning functions in case of anomalies during charging, ensuring the safety of users and vehicles. Such a high performance DC charger provides fast and efficient charging, which is particularly important for longer journeys or at frequently used charging points.

Application options

-  Taxi
-  Bus
-  Public charging station
-  Residence community
-  Shuttle bus
-  Freight vehicles, special vehicles
-  Enterprises and institutions
-  Commercial complex



| Items | | Parameters | |
|---------------------------------|--|--|--|
| Basic index | | | |
| Rated power | 320 kW | 400 kW | |
| Dimensions (wxdxh) | 850 mm x 1100 mm x 2100 mm | | |
| Charging outlet | CCS2+CHAdeMO (optional), length: 5 m | | |
| HMI | 10.1 inch, color Touch Screen | | |
| Energy meter | MID | | |
| Installation | Ground mounted | | |
| Communication | | | |
| EVSE | PLC (DIN 70121:2014 12/ISO15118) | | |
| Back-end protocol | OCPP 1.6/ OCPP 2.0 (upgradeable) | | |
| Method of payment | | | |
| Payment mode | Optional: RFID Card/POS | | |
| Input characteristics | | | |
| Input voltage | 400 VAC± 10% | | |
| Frequency | 50 Hz | | |
| Power factor | >0.98 (50%~100% load) | | |
| Harmonic | iTHD<5% | | |
| Output characteristics | | | |
| Voltage | DC 200~1000 V | | |
| Current | CCS2 rate 300 A CHAdeMO 125 A max. | | |
| Power | CCS2 320 kW max. CHAdeMO 62.5 kW max. | CCS2 400 kW max. CHAdeMO 62.5 kW max. | |
| Peak efficiency | >95% | | |
| Charging way | Meantime | | |
| Environmental indicators | | | |
| Operating temperature | -30°C ~ +50°C | | |
| Relative humidity | 5% ~ 95% without condensation | | |
| Working altitude | <2000 m | | |
| Protection grade | IP54 | | |
| Application site | Indoor/Outdoor | | |
| Cooling method | Intelligence air forced cooling | | |
| Noise | ≤60 dB | | |
| Markings | | | |
| Certification | CE, CB, UKCA, TR25 | | |
| Weight | | | |
| Net weight | ≤580 kg | | |
| Gross weight | ≤710 kg | | |

BATTERY CABINET ENERGY STORAGE SYSTEM

Meet our state-of-the-art energy storage system that provides maximum safety and convenience and helps reduce energy costs. It is ideal for industrial and commercial applications where secure energy storage and easy-to-manage control are paramount. With an integrated BMS communication system, excellent thermal management and IP66 protection rating, it is a highly reliable energy storage solution.



SUNNIC uses CATL batteries in its systems. Sunnic is a joint venture between CATL, the world's leading battery manufacturer, and Xiaomi, the global smart device manufacturer.

| Features | Description |
|--|---|
| Components of Battery Rack | 5×Battery Module /1P52S |
| | 1×Control Box /Control box mainly is composed of detective device, protective device |
| | 1×Thermal management system / Including Cooling Mode、 Heating Mode、 Selfcirculation Mode、 Sleeping Mode. |
| | 1×Fire Suppression System /Including smoke detector, heat detector and aerosol (Addressable type and relay type) |
| 1×BMS Communication Management System / 8CSC+1SBMU | |
| Battery Rack Characteristics | Configuration : 1P260S Number : 5 Connection mode : Fast plug |
| Electrical performance parameter | Rated Charging Current : 280A Maximum Charging Current : 320A last 1min Rated Discharging Current : 280A Maximum Charging Current : 320A lasts 1min |
| | Nominal Power (kWh) : 232.9kWh Voltage Range (V DC) : 728V DC~936V DC (2.8~3.6V) Nominal Voltage : 742.4V DC (3.2V) Max continuous current : 320A Rated Power : 232.9 kW |
| Auxiliary power supply | Voltage range : 176-264V AC(L-N) (50/60HZ) Power : Heating-3000W/Cooling-3300W (25°C) Surge power : 7KW |
| (BMS) Auxiliary power supply | Voltage range : 22V~26V(DC) Operating State power consumption : 60W |
| Cabinet General Parameters | Size : 2280mm(H)*1300mm(W)*1300 mm(D) Color : RAL7035 Weight : 3700±50kg Anti-corrosion grade : C5 Earthquake resistance rating : Magnitude 9 earthquake (2016 California building code SDC D) IP Code/NEMA : IP66 Power connection : Fast Plug Grounding mode : system grounding resistance≤4Ω Meeting local requirements Communication mode : Modbus TCP Cooling mode : Liquid Cooling Coolant : 50% Ethylene glycol aqueous solution |
| Certified Standard requirement | BMS Certification : IEC/UL60730 / UL1973 / GB/T 34131-2017 Cabinet Certification : GB/T 36276/ UL1973 / IEC62619/ IEC62477- 1/ UL9540A Pass (edition 3)/IEC61000-6-2/-4 |

MODULAR PCS ENERGY CONVERSION SYSTEM

The Modular PCS system guarantees a more efficient use of energy from renewable energy sources and better energy quality. It provides users with optimal performance and flexibility, as AC and DC connection options allow the system to adapt flexibly to different power supply needs while operating at 98% efficiency. The product is an ideal choice for those looking for a reliable and efficient solution to their energy challenges, whether they are commercial, industrial or high energy demanding systems.

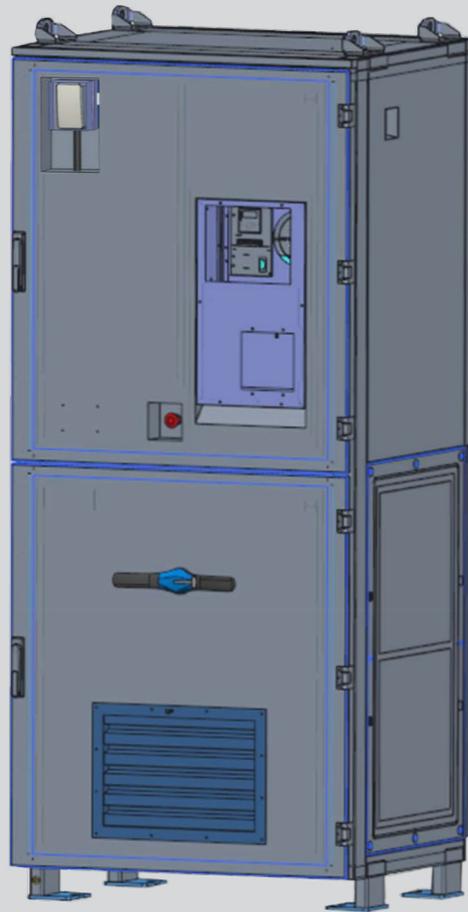


| AC Connection | |
|---------------------------------|--|
| Rated Grid Voltage | 400 Vac (3P,N,PE) or (3P,PE) |
| Grid Voltage Range | 352 ~ 440 Vac |
| Rated Grid Frequency | 50 Hz |
| Frequency Range | 45~55 Hz |
| Rated AC Power | 100 kVA / kW |
| Rated AC Current | 145 A |
| Max. Continuous AC Current | 167 A |
| Maximum AC Power | 110 kVA / kW |
| Current THD | <3% |
| DC current injection | <0.5% rated current |
| Power Factor | -1 to 1, continuously adjustable |
| DC Connection | |
| DC Voltage Range | 650 ~ 1,350 Vdc for 3P3W 1) / 700 ~ 1,350 Vdc for 3P4W in Off-grid mode 1), 2) |
| Start Up DC Voltage | 650V |
| Rated Discharge / Charge Power | 102 kW / 98 kw |
| Max. Discharge / Charge Current | 157A / 151A |
| Standalone operation | |
| Rated Output Voltage | 400Vac(3P,N,PE) |
| Rated Output Power | 100 kVA / kW with linear load ; 80 kVA with RCD load (Ipk240A) 3) |
| Rated Output Current | 145 A |
| Output Voltage THD | < 3% @ rated linear load |
| Performance | |
| Peak Efficiency | 98% |
| Standby Loss | <25W @ cold mod |

| Environment | |
|------------------------------|--|
| Max. Altitude | 4,000 m, de-rating >2000m |
| Operating Temperature | -30°C to +60°C, de-rating >45°C |
| Humidity | 0 to 95% RH, non-condensing |
| Acoustic Noise | < 70 dB @ 1 m @25°C @ rated condition, max. 75 dB |
| Cooling | Forced air with speed control |
| Enclosure Rating | IP55 |
| General | |
| User Interface | ED, EPO, Ethernet |
| Communication | Ethernet/Modbus TCP |
| Dimension (W x H x D) | 600 x 2000 x 500 mm |
| Net Weight | 230 kg |
| Certificate | Safety:IEC 62477-1, EN62477-1 Grid Code: AS/NZS 4777.2:2020 EMC: IEC/EN 61000-6-2,IEC/EN 61000-6-4 Vibration:IEC 60068-2-6:2007 |
| Protection | DC reverse protection/OVP/UVP/OCP/ DC insulation detection |
| Product Conformity | CE, RCM |
| Applicable Battery Chemistry | Lithium-ion, lead-acid, flow battery |

COMMUNICATION CABINET COMMUNICATION SYSTEM

The Communication Cabinet is designed specifically for those looking for a long-term, reliable solution for telecommunications and networking applications. With a 15-year lifetime and IP54 protection, the cabinet offers optimum protection against external environmental influences. With its compact dimensions and advanced cooling system, it is the perfect choice for any outdoor installation where the safety and constant operation of communication equipment must be guaranteed.



| Features | Description |
|---------------------------------|---|
| Design life | 15 years |
| Component selection standard | IEC related standards |
| Cabinet protection grade | IP54/Type 3R, outdoor cabinet |
| Dimensions (W x D x H, mm) | 1000x800x2342 |
| Working ambient temperature | - 25-45 C |
| Humidity of working environment | 0-90% (no condensation) |
| Working altitude | ≤ 2000m |
| Cabinet anti-corrosion grade | C4 |
| DC operation mode | no load operation (no load operation) |
| Cooling mode | air conditioner |
| Incoming direction | downward incoming and downward outgoing |



POWER PLUS DC ELECTRIC VEHICLE CHARGER

The Electrly Power Plus DC EV chargers offer high-performance, reliable, and compact solutions for charging electric vehicles. The models feature power outputs ranging from 60 kW to 360 kW, with both AC and DC integration, and three different output connectors (CCS1/CCS2, CHAdeMO), allowing simultaneous charging of multiple vehicles.

The intelligent control options include support for Ethernet, 4G, and Wi-Fi communication, as well as the OCPP protocol.

Contactless payment solutions, along with app-based remote updates and diagnostic functions, ensure flexible and convenient usage. The chargers high protection rating (IP54) safeguards them against environmental factors such as dust and water, making them highly suitable for outdoor use.

- **Anti-Pressure Inflamming**
- **Overcurrent Protection**
- **Overvoltage Protection**
- **Undervoltage Protection U**
- **CP Protection Cp**
- **Water-proof Protection**
- **Overtemperature Protection**

Application options



Taxi



Shuttle bus



Bus



Freight vehicles, special vehicles



| Product Category | AC Input Voltage Range (V) | DC Output Voltage Range (V) | Constant Power Output Voltage Range (V) | Output Power (kW) | Max Output Current (A) | Max Output Current for Single Plug (A) | Degree of Protection | Dimension (W/H/D mm) |
|------------------|----------------------------|-----------------------------|---|-------------------|------------------------|--|----------------------|----------------------|
| 60kW | AC260V~AC485V | DC150~1000V | DC300~1000V | 60kW | DC200A | DC200A | IP54 | 7001900650 |
| 120kW | AC260V~AC485V | DC150~1000V | DC300~1000V | 120kW | DC400A | DC200A | IP54 | 7001900650 |
| 180kW | AC260V~AC485V | DC150~1000V | DC300~1000V | 180kW | DC400A | DC200A | IP54 | 7001900650 |
| 240kW | AC260V~AC485V | DC150~1000V | DC300~1000V | 240kW | DC400A | DC200A | IP54 | 7001900650 |
| 360kW | AC260V~AC485V | DC150~1000V | DC300~1000V | 360kW | DC400A | DC200A | IP54 | 7001900650 |

AC and DC integration

- One charger with three outputs, capable of simultaneous charging
- One AC connector: Type 2, with a maximum output of 43 kW
- Two DC connectors: CCS1/CCS2 and CHAdeMO, with a maximum output of 60 kW

Intelligent control

- Supported Ethernet/4G/Wi-Fi communication
- OCPP communication protocol with CMS system
- Intelligent operation via app and contactless payment

Flexible options

- App control, RFID authentication, or plug and play function
- High protection rating (IP54), with IP65 available as an option
- Optional POS terminal for contactless credit card payment



BYD NET ZERO INTEGRATED SYSTEM

Get to know the BYD Net Zero energy storage system, which combines revolutionary innovation with high-capacity charging (HPC) in an integrated energy storage system (ESS). As part of the system, the smart energy management system (EMS) provides efficient energy usage through the cloud-based XCharge SaaS service and offers an easily deployable solution for all needs. Its scalability allows it to flexibly meet the users' requirements. The Net Zero's storage capacity enables its placement in locations where the limits of grid electricity supply would otherwise not allow for the installation of a high-capacity electric vehicle charger.



| | | |
|-----------------------|-------------------------------------|---|
| Basic Parameters | Dimension | 2.3m*0.8m*2.25m (w*d*h) |
| | Material | Industrial Grade Alloy |
| | Weight | 3000kg |
| | Input Voltage | 3Phase 400VAC +/- 15% |
| | Input Frequency | 50Hz±1Hz |
| | Constant-power voltage output range | 300VDC-1000VDC |
| | Nominal power output | 150kW + 30kW/60kW |
| | Current output | Max. 250A CCS2 continuously |
| | Power distribution | 2 connectors intelligent distribution |
| Energy-storage-System | Battery Capacity | 233kW·h / 2*233kW·h |
| | Usable Energy (SAT) | 208 kW·h/2*208 kW·h |
| | Battery charging Rate | ≤0.5C |
| | Battery discharge Rate | ≤1C |
| | Battery Efficiency | ≥94.5% under nominal situation |
| Standard | IP Ranking | IP65 |
| | Battery Cell | IEC 62619, IEC62933 |
| | System level | IEC 62619, IEC61851, IEC62477, IEC15118 |



HIGH-VOLTAGE BATTERY FOR RESIDENTIAL ENERGY STORAGE

MINT-JKE05 | MINT-JKE10 | MINT-JKE15 | MINT-JKE20

Ensure your energy independence

Residential Energy Storage Systems (ESS) are fundamental components for flexible energy use and reducing energy costs in homes. Our smart, efficient, high-voltage energy storage modules are widely compatible with industrial standard inverters and come with power regulation for easy installation.

More Reliable

- Advanced LiFePO4 technology
- Smart battery management system

Intelligent BMS

- Battery monitoring and protection
- Short circuit protection
- Wireless communication through an app

More Flexible

- Modular structure for easier expansion
- Easy to transport, quick to install

Comprehensive Service

- 10 year global warranty



| Model | Mint-JKE05 | Mint-JKE10 | Mint-JKE15 | Mint-JKE20 |
|-----------------------------|------------|------------|------------|------------|
| Battery Type | LiFePO4 | | | |
| Battery module quantity | 1 | 2 | 3 | 4 |
| Nominal Voltage (V) | 102.4 | 204.8 | 307.2 | 409.6 |
| Nominal Capacity (Ah) | 50 | | | |
| Nominal Output Energy (KWh) | 5.12 | 10.24 | 15.36 | 20.48 |

Electrical Parameters

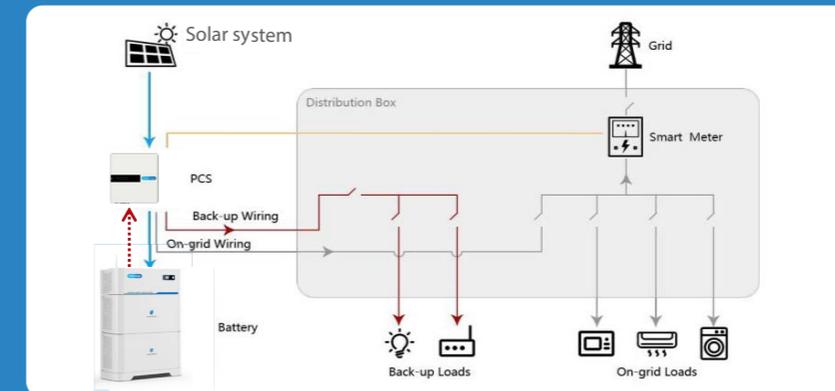
| | | | | |
|------------------------------------|---------------------------|-------------|-------------|-------------|
| Voltage Range (V) | 83.2~115.2 | 166.4~230.4 | 249.6~345.6 | 332.8~460.8 |
| Charging & Discharging Current (A) | 25@continue (Recommended) | | | |
| Charging & Discharging Current (A) | 50@continue (Max) | | | |

Mechanical Parameters

| | | | | |
|---------------------------|-----------------|-------------|--------------|--------------|
| Net Weight (±1.0 kg) | 71 | 124 | 177 | 231 |
| Dimension (W*D*H,±2.0 mm) | 758*228*614 | 758*228*942 | 758*228*1270 | 758*228*1598 |
| Ingress Protection | IP65 | | | |
| Cooling | Natural Cooling | | | |

Operation Condition

| | |
|-----------------------------|---|
| Environment Temperature(°C) | Charge: 0~60, Discharge:-20~60, Storage:-20~60(< one month) |
| Operation Humidity (RH) | 5~95% |
| Altitude (m) | <2000 |
| Mounting Type | Floor-mounted |
| Designed life | >10 years |
| Certificates & Standards | IEC62619,IEC60730,IEC62040,EN61000-6-1,EN61000-6-3,UN38.3 |



THREE-PHASE HYBRID INVERTER, 5-10KW

The PotisEdge solution provides outstanding efficiency in home energy storage. This hybrid inverter represents the pinnacle of innovation, allowing users to fully harness solar energy.

- Maximum efficiency of 98.4%, battery efficiency 98%
- Maximum charging/discharging current 50A
- Remote configuration and updates
- Reliable performance: designed for long-term use according to industrial standards

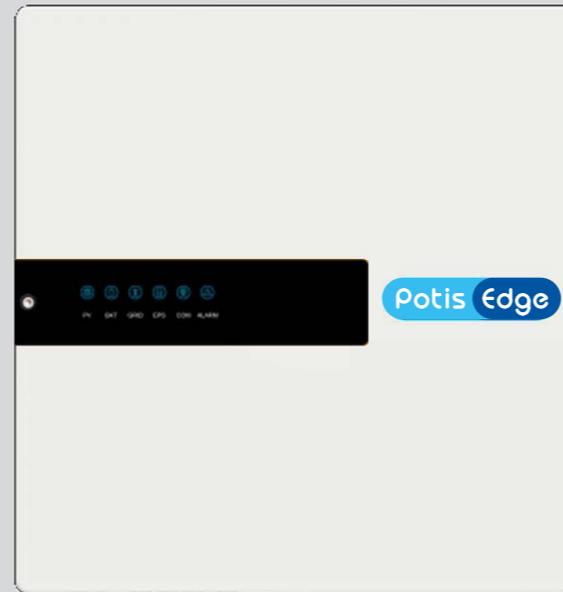
Models:

IPT-5K: 5000W nominal output power

IPT-6K: 6000W, with extra battery capacity

IPT-8K: 8000W, ideal for households with higher energy demands

IPT-10K: 10000W, the most powerful option in the range

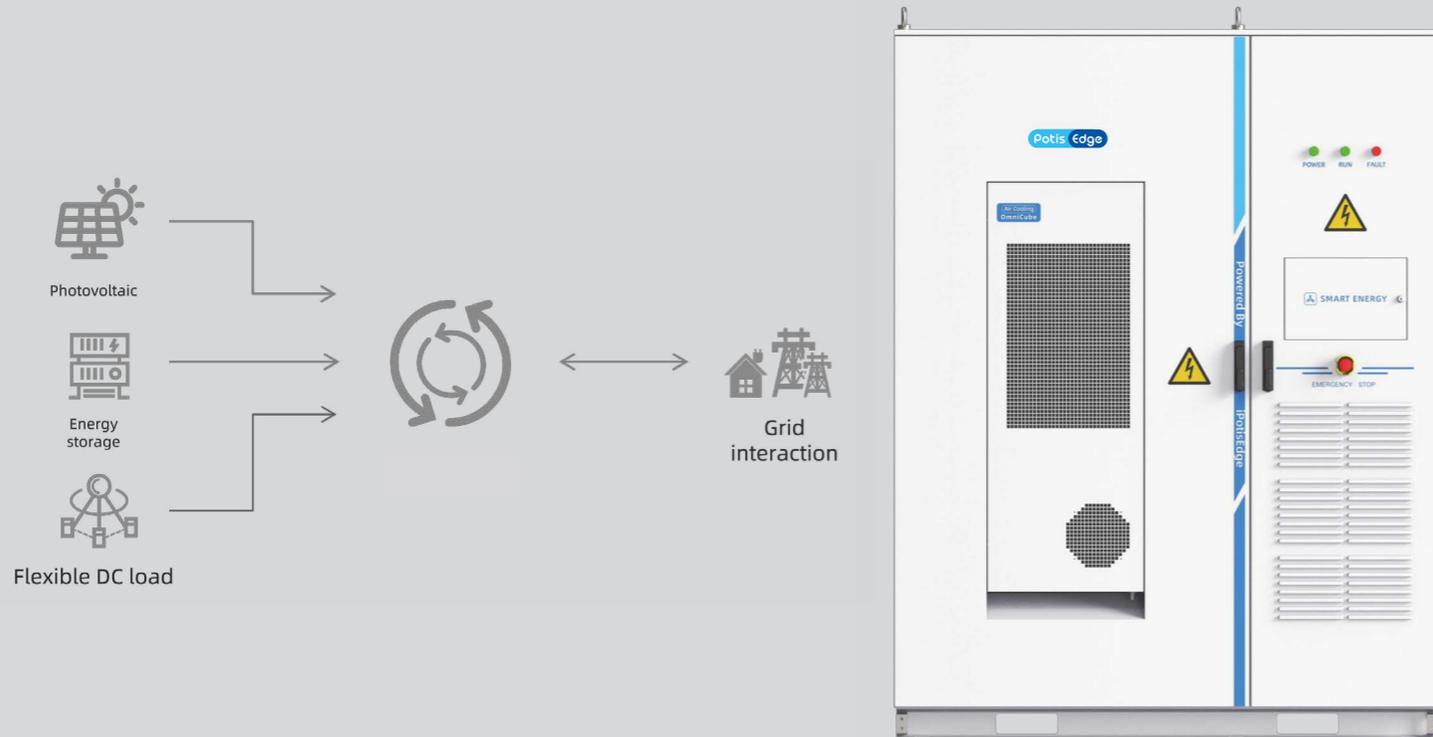


All models offer a wide range of settings, including charging current, output voltage and frequency, which ensure that the inverter can be easily adapted to different home energy systems.

| Model | IPT-5K | IPT-6K | IPT-8K | IPT-10 |
|-----------------------------|---|--------|---------|---------|
| Output (Back up) | | | | |
| Nominal output voltage | 380V / 400V | | | |
| Nominal output frequency | 50Hz / 60Hz | | | |
| Nominal output power | 5000W | 6000W | 8000W | 10000W |
| Nominal output current | 3*7.6A | 3*9.1A | 3*12.2A | 3*15.2A |
| Transfer time | 10ms (typ) / 20ms (max) | | | |
| THDV | <3% (R Load), 5% (RCD Load) | | | |
| Protection | | | | |
| Anti-islanding protection | Integrated | | | |
| AC overcurrent protection | Integrated | | | |
| AC short circuit protection | Integrated | | | |
| AC over-voltage protection | Integrated | | | |
| Surge Arrester | DC Type II, AC Type II | | | |
| Insulation detection | Integrated | | | |
| GFCI | Integrated | | | |
| AFCI | Integrated | | | |
| RSD | Optional | | | |
| General Data | | | | |
| Dimensions (WxHxDmm) | 530*550*212 | | | |
| Ingress protection degree | IP65 | | | |
| Working Temp. Range(C) | -25~45 | | | |
| Relative Humidity(%) | 0~100 | | | |
| Operating Altitude(m) | <4000m | | | |
| Cooling | Natural Convection | | | |
| Noise Level(dB) | <30 | | | |
| PV connection way | MC4/H4 | | | |
| Battery connection way | Dedicated DC connector | | | |
| HMI&COM | | | | |
| Display | LED+APP (Bluetooth) | | | |
| Communication | BMS (CAN/RS485) Optional: WiFi/GPRS/4G/Ethernet, DI (DRM/RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade) | | | |
| Certification | | | | |
| Grid | IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98 | | | |
| Safety | IEC62109-1&2, IEC62040-1, IEC62477-1 | | | |
| Warranty | 5 Years / 10 Years (Optional) | | | |

OMNICUBE-A215 INDUSTRIAL ENERGY STORAGE SYSTEM

The OmniCube-A215 energy storage system, with its air-cooled, modular design, is ideal for meeting the needs of industrial, commercial, and large-scale storage requirements. This innovative system allows for the optimization of energy costs, stabilization of the grid, and promotion of energy independence while reducing the carbon footprint.



| System Parameters | |
|-----------------------------------|--|
| Maximum system efficiency | 89% |
| Disposition | DCDC、STS (Seamless switch) 、PCS |
| Charge and discharge ratio | 0.5P |
| Cooling method | Air cooling |
| Work environment | '-20 ~ +55°C |
| Relative humidity | 0%-95%, RH |
| Elevation | ≤2000m |
| Size (W*D*H) | 1750*1215*2340mm |
| Fire fighting system | Aerosol extinguishing device |
| Weight | ≤2.7t |
| IP rating | IP54 |
| Cycle number | 6000@25°C 0.5C/0.5C,90%DOD, 70%EOL |
| Communication interface | RS485、Ethernet |
| Communication protocol | Modbus、61850 |
| Design standards | IEC/EN62619、IEC/EN62477、IEC/EN61000、UL/IEC60730 IEC61000、EN 62109、EN62109、EN62477 UN38.3 |
| DC side cell cluster parameter | |
| Battery specification | LFP280Ah |
| Rated voltage | 768V (25°C±2°C) |
| DC side voltage range | 600~876V |
| Rated electric quantity | 215.04kWh |
| AC side parameter | |
| Output Power | 100kW |
| Rated voltage | AC400V |
| AC output | Three-phase three-wire/three-phase four-wire |
| Frequency | 50Hz/60Hz |
| Total harmonic current distortion | ≤3%(Full load) |
| Power factor | -0.99~+0.99 |
| DCDC parameter (optional) | |
| Rated power | 50kW |
| PV maximum open circuit voltage | 0~900V |
| PV voltage range | I _{max} =100A |
| PV maximum input current | 1 |
| The number of MPPT routes | 273A |

ENERGY STORAGE CONTAINER

The Keeway Energy Storage system includes a battery container and an intelligent PCS (Power Control System). This system, with its optimized design, easy maintenance, and reliable performance, is a perfect choice for modern energy storage needs. The goal of the system is to provide reliable and scalable energy storage for various applications, whether residential, commercial, or industrial.



Battery Container



Battery Pack



Smart PCS

| Battery Container | |
|--|--|
| DC Rated Voltage | 1,200 V |
| DC Max. Voltage | 1,500 V |
| Nominal Energy Capacity | 2,064 kWh |
| Rated Power (0.5C) | 344 kW * 3 |
| Rated Power (1C) | 344 kW * 6 |
| Container Configuration (W x H x D) | 6,058 x 2,896 x 2,438 mm |
| Container Weight | ≤ 30 t |
| Operation Temperature Range | -30°C ~ 55°C |
| Storage Temperature Range | -40°C ~ 60°C |
| Operation Humidity Range | 0 ~ 100% (Without Condensation) |
| Max. Operating Altitude | 4,000 m |
| Cooling Method | Smart Air Cooling |
| Fire Extinguishing | FM-200 / Novec 1230 |
| Communication Interface | Ethernet / SFP |
| Communication Protocol | Modbus TCP |
| Protection Degree | IP55 |
| Certificates (more available upon request) | |
| Environment | RoHS6 |
| Safety & Electrical | IEC62477-1, IEC62040-1, IEC61000-6-2, EN55011, UL9540A, UN3536, etc. |

ALL-IN-ONE ENERGY STORAGE WITH AC CONNECTOR

The Keeway Energy product is a compact, „all-in-one” energy storage system that is easy to install. Thanks to the special LFP (lithium iron phosphate) batteries, it is an ideal choice for storing energy from the electric grid as well as incorporating solar energy. The system has a capacity ranging from 200 kW to 800 kW, making it suitable for larger buildings and industrial use. The external, IP54-rated enclosure and cooling system ensure that the equipment operates reliably under various weather conditions.



The „All-in-one Energy Storage” product offers an integrated solution for the AC coupling, meaning all necessary components have been incorporated into a single unit.

| Type | Storage | Solar + Storage |
|-----------------------------------|----------------------------------|-----------------|
| Battery Parameter | | |
| Cell Type | LFP Prismatic Type | |
| Battery Capacity (kWh) | 50~200 | 50~200 |
| Voltage Range (V) | 250~800 | 320~800 |
| Max. Charging Power (kW) | 50/150 | 30/100 |
| AC On-grid Parameter | | |
| Grid Type | 3W+N+PE | |
| Input / Output (k W) | 50~150 | 50 |
| AC Voltage (V) | 320~460 | |
| Applicable Grid Frequency (Hz) | 45~55/55~65 | |
| THDi | <3% (100% load) | |
| Power Factor | 1(Leading)~1(Lagging) | |
| AC Off-grid Parameter | | |
| Rated Charge/Discharge Power(kW) | 50~150 | 50 |
| Max Output Power (kVA) | 50~150 | 55 |
| Rated A C Voltage (V) | 400 | |
| Nominal Frequency (Hz) | 50/60 | |
| THDu | ≤ 1% linear; or ≤ 5% nonlinear | |
| Photovoltaic Input | | |
| Max Input Power (kW) | -- | 50/100 |
| MPPT Voltage Range (V) | -- | 250~850 |
| General Parameter | | |
| Dimension:W*D*H (mm) | 2200*1100*2340 | |
| Max. Weight (kg) | 3200 | |
| IP Degration | IP54 | |
| Operating Temperature Range (°C) | -20~50 | |
| Relative Humidity | 0~95%(No condensation) | |
| Altitude | <2000m | |
| Cooling Method | Heat Ventilation Air Conditioner | |
| Noise (dB) | ≤ 75 | |
| System Efficiency | ≥ 85% | |
| Firefighting System | Intetared | |
| Communication | Ethernet, Modbus TCP/IP | |
| Certification | | |
| Safety & Certification | IEC62619, UN38.3 | |

ZBOX200 ENERGY STORAGE SYSTEM

With the ZBox200 energy storage system, you can significantly reduce your energy costs and carbon footprint. This system aids in utilizing greener energy and reducing CO2 emissions. Equipped with a nominal capacity of 280 kWh and a charging/discharging current of 140 A, this device is an ideal solution for reducing energy demand during peak times and optimizing energy costs. The ZBox200, protected by IP54 and utilizing an HVAC cooling method, ensures the longevity of internal components and the system's reliability under various operating temperatures.



„Distributed Energy Storage“ is a DC coupled device used to connect separate components (solar panels, storage units).

| Type | ZBox200 |
|-----------------------------------|---------------------------|
| Battery Parameters | |
| Voltage Range(V) | 250~800 |
| Rated Capacity(Ah) | 280 |
| Rated Charge/Discharge Current(A) | 140/140 |
| Rated Energy(kWh) | 50~200 |
| Maximum Discharge Current(A) | 200 |
| Maximum Charge Current(A) | 200 |
| General Parameter | |
| Dimension:W*D*H (mm) | 1100*1100*2340 |
| IP Grade | IP54 |
| Total Weight (kg) | Max.2300 |
| Cooling Mode | HVAC |
| Fire Fighting | Integrated |
| Operating temperature (C) | -20~ 50 |
| Operating humidity | 5%~95%R.H |
| Communication | CAN/RS485 / Modbus TCP/IP |
| Parallel | Max.10 cabinets |
| Certification | |
| Safety & Certification | IEC62619 |
| Transportation | UN38.3 |

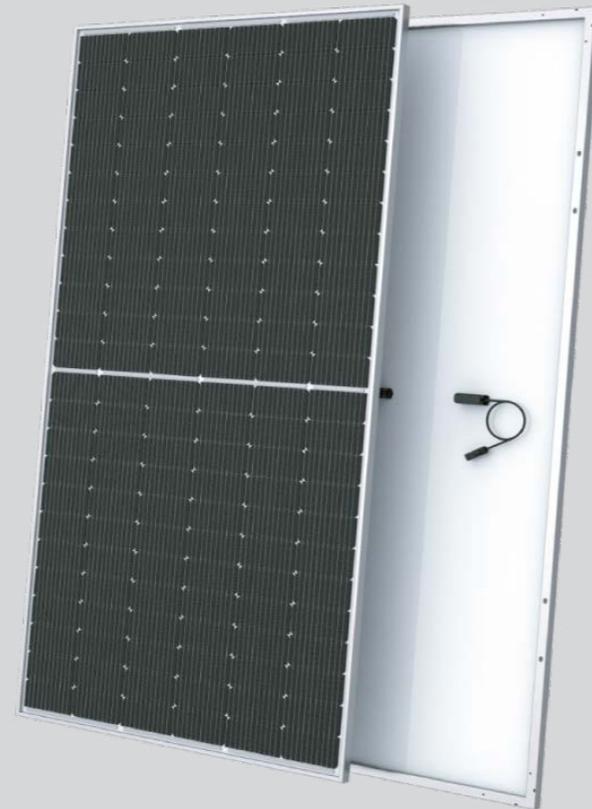
MONOCRYSTALLINE SOLAR PANEL MODULE (72 CELLS)

CEC6-72MHV

CECEP Solar's latest innovation, the CEC6-72MHV monocrystalline silicon solar panel module, offers exceptionally high performance of 530-555W and efficiency between 20.5%-21.5%, with bifacial energy production, thus delivering maximum performance even under weak lighting conditions. Its lightweight and easy installation, coupled with its excellent quality and reliability, make this product an ideal choice for those seeking the simplicity and cost-effectiveness of harnessing solar energy. The IP68 rating ensures extraordinary reliability and durability, also resisting extreme wind and snow loads.

LINEAR WARRANTY AND CERTIFICATION

- 1st year Power output not less than 98%
- Warranty for product materials and process within 12 years
- Power output not less than 91,95% within 12 years
- Power output not less than 84,8% within 25 years



| Mechanical Characteristics | | |
|--|--|------------------|
| Cell type | 182×91mm monocrystalline silicon solar cells, 144 cells (6×24) | |
| Glass | 3.2 mm thick low-iron tempered glass with high light transmittance | |
| Junction Box | IP Grade: IP68 | |
| Temperature Rating | | |
| Nominal Module Operating Temperature (NMOT) | 42°C±2°C | |
| Maximum Power (Pmax) Temperature Coefficient (δ (%/°C)) | -0.30 | |
| Open-circuit voltage (Voc) Temperature coefficient (β (%/°C)) | -0.26 | |
| Short circuit current (Isc) Temperature coefficient (α (%/°C)) | 0.05 | |
| Limit Parameters | | |
| Operating temperature | -40°C to +85°C | |
| Maximum fuse current rating | 25A | |
| Physical Parameter | | |
| Dimension | 2278*1134*35mm | |
| Mounting hole size | 400*1092,990*1089,1400*1089mm | |
| Cable Length | 250mm; Customizable | |
| Weight | 28.3Kg | |
| Mode of Packing | | |
| 40 'HQ Container | Pieces per pallet | 31 pcs/pallet |
| | pallets per container | 20 pallets/40'HQ |
| | Pieces per container | 620pcs/40'HQ |

Parameters of Module

| Electrical parameters (Standard test condition) | CEC-72-530MH CEC-72-530MHV | CEC-72-535MH CEC-72-535MHV | CEC-72-535MH CEC-72-535MHV | CEC-72-535MH CEC-72-535MHV | CEC-72-535MH CEC-72-535MHV | CEC-72-535MH CEC-72-535MHV |
|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Maximum power-Pmax(Wp) | 530 | 535 | 540 | 545 | 550 | 555 |
| Maximum operating voltage-Vmp(V) | 41.67 | 41.97 | 42.13 | 42.42 | 42.71 | 42.99 |
| Maximum operating current-Imp(A) | 12.72 | 12.75 | 12.82 | 12.85 | 12.88 | 12.91 |
| Open-circuit voltage -Voc(V) | 49.64 | 49.77 | 49.91 | 50.02 | 50.14 | 50.26 |
| Short-circuit current-Isc(A) | 13.48 | 13.52 | 13.58 | 13.62 | 13.68 | 13.72 |
| Maximum system voltage-Vdc(V) | 1000/1500 | 1000/1500 | 1000/1500 | 1000/1500 | 1000/1500 | 1000/1500 |
| Module efficiency(%) | 20.5% | 20.7% | 20.9% | 21.1% | 21.3% | 21.5% |
| Power tolerance(W) | 0/+5W | 0/+5W | 0/+5W | 0/+5W | 0/+5W | 0/+5W |

2 Measured values under STC (temperature 25°C, air mass AM1.5, irradiance 1000W/m²)

MONOCRYSTALLINE SOLAR MODULE (54 CELLS) - QINGTIAN ALT BLACK

CEC6-54MHV

Discover the QingTian Alt Black Monocrystalline solar panel module - CEC6-54MHV. Characterized by easy installation and outstanding cost-efficiency, it provides excellent resistance to extreme wind and snow loads, ensuring 0~+5W performance. It guarantees optimal performance even under weak light conditions, making it reliable during cloudy weather, at dawn, or sunset. It comes with internationally recognized certifications such as IEC61215 and IEC61730, as well as the CE mark. This module is a perfect choice for those seeking high efficiency and durability.

LINEAR WARRANTY AND CERTIFICATION

- 1st year Power output not less than 98%
- Warranty for product materials and process within 12 years
- Power output not less than 91,95% within 12 years
- Power output not less than 84,8% within 25 years



| Mechanical Characteristics | |
|--|--|
| Cell type | 182×91mm monocrystalline silicon solar cells, 108 cells (6×18) |
| Glass | 3.2 mm thick low-iron tempered glass with high light transmittance |
| Junction Box | IP Grade: IP68 |
| Temperature Rating | |
| Nominal Module Operating Temperature (NMOT) | 42°C±2°C |
| Maximum Power (Pmax) Temperature Coefficient (δ (%/°C)) | -0.34 |
| Open-circuit voltage (Voc) Temperature coefficient (β (%/°C)) | -0.26 |
| Short circuit current (Isc) Temperature coefficient (α (%/°C)) | 0.05 |

| Limit Parameters | | |
|-----------------------------|-----------------------|------------------|
| Operating temperature | -40°C to +85°C | |
| Maximum fuse current rating | 25A | |
| Physical Parameter | | |
| Dimension | 1722*1134*30mm | |
| Mounting hole size | 1150*1088,1400*1088mm | |
| Cable Length | 300mm; Customizable | |
| Weight | 21.5Kg | |
| Mode of Packing | | |
| 40'HQ Container | Pieces per pallet | 36 pcs/pallet |
| | pallets per container | 26 pallets/40'HQ |
| | Pieces per container | 936pcs/40'HQ |

Parameters of Module

| Electrical parameters (Standard test condition) | CEC-54-400MH CEC-54-400MHV | CEC-54-405MH CEC-54-405MHV | CEC-54-410MH CEC-54-410MHV | CEC-54-415MH CEC-54-415MHV |
|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Maximum power-Pmax(Wp) | 400 | 405 | 410 | 415 |
| Maximum operating voltage-Vmp(V) | 31.09 | 31.26 | 31.42 | 31.61 |
| Maximum operating current-Imp(A) | 12.86 | 12.96 | 13.05 | 13.13 |
| Open-circuit voltage -Voc(V) | 37.00 | 37.20 | 37.40 | 37.60 |
| Short-circuit current-Isc(A) | 13.65 | 13.76 | 13.84 | 13.94 |
| Maximum system voltage-Vdc(V) | 1000/1500 | 1000/1500 | 1000/1500 | 1000/1500 |
| Module efficiency(%) | 20.5% | 20.7% | 21.00% | 21.30% |
| Power tolerance(W) | 0/+5W | 0/+5W | 0/+5W | 0/+5W |

2 Measured values under STC (temperature 25°C, air mass AM1.5, irradiance 1000W/m²)

Test under NMOT conditions

| | | | | |
|------------------------------|-------|-------|-------|-------|
| Maximum power(Wp) | 298.9 | 302.7 | 306.4 | 310.1 |
| Maximum power voltage-Vmp(V) | 28.98 | 29.13 | 29.29 | 29.45 |
| Maximum power current-Imp(A) | 10.32 | 10.39 | 10.46 | 10.53 |
| Open-circuit voltage voc(V) | 34.97 | 35.15 | 35.34 | 35.53 |
| Short-circuit current-Isc(A) | 11.07 | 11.17 | 11.26 | 11.35 |

WATT IS LOVE

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