



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.

Sunnio'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 Curent	16A		32A
Rated Power	11kW		22kW
User Interface			
Charge Connector	Type2		Type2
Charge Cabel	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 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. CHAdemo 124A max.	CCS2 200A max. CHAdemo 125A max.	CCS2 200A max. CHAdemo 125A max.
	Power	CCS2 50kW max. CHAdemo 50kW max.	CCS2 60kW max. CHAdemo 60kW max.	CCS2 80kW max. CHAdemo 62.5kW max.
	Peak efficiency	>95%		
	Charging way	Meantime		
Environmental indicators				
	Operating temperature	-30℃ ~+50℃		
	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℃ ~ +50℃	
	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)
Battery Rack Characteristics	1×BMS Communication Management System / 8CSC+1SBMU
	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
Auxiliary power supply	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
(BMS) Auxiliary power supply	Rated Power : 232.9 kW
	Voltage range : 176-264V AC(L-N) (50/60HZ)
	Power : Heating-3000W/Cooling-3300W (25℃)
	Surge power : 7KW
Cabinet General Parameters	Voltage range : 22V~26V(DC)
	Operating State power consumption : 60W
	Size : 2280mm(H)*1300mm(W)*1300 mm(D)
	Color : RAL7035
Certified Standard requirement	Weight : 3700±50kg
	Anti-corrosion grade : C5
	Earthquake resistance rating : Magnitude 9 earthquake (2016 California building code SDC D)
	IP Code/NEMA : IP66
Cabinet Certification	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	
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.

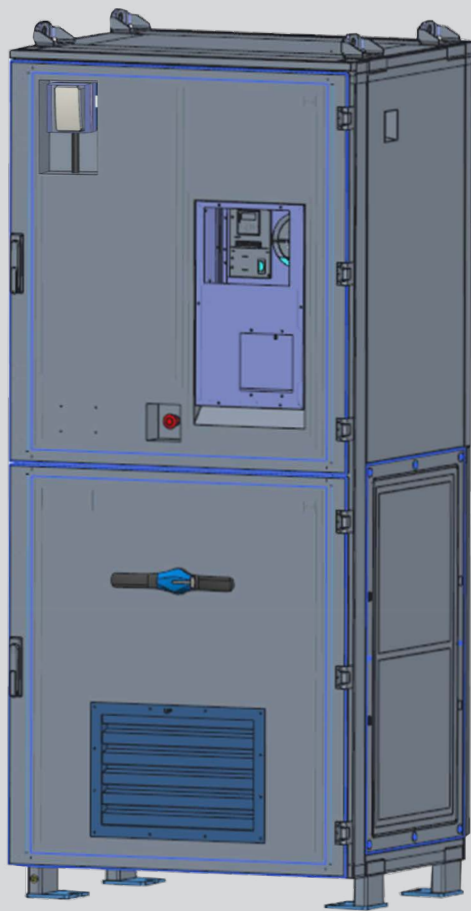


AC Connection	
Rated Grid Voltage	400 Vac (3P,N,PE) or (3P,PE)
Grid Voltage Range	352 ~ 440 Vac
Rated Grid Frequency	50 Hz
Frequency Range	45~55 Hz
Rated AC Power	100 kVA / kw
Rated AC Current	145 A
Max. Continuous AC Current	167 A
Maximum AC Power	110 kVA / kW
Current THD	<3%
DC current injection	<0.5% 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 (lpk240A) 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 Inflaming**
- **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

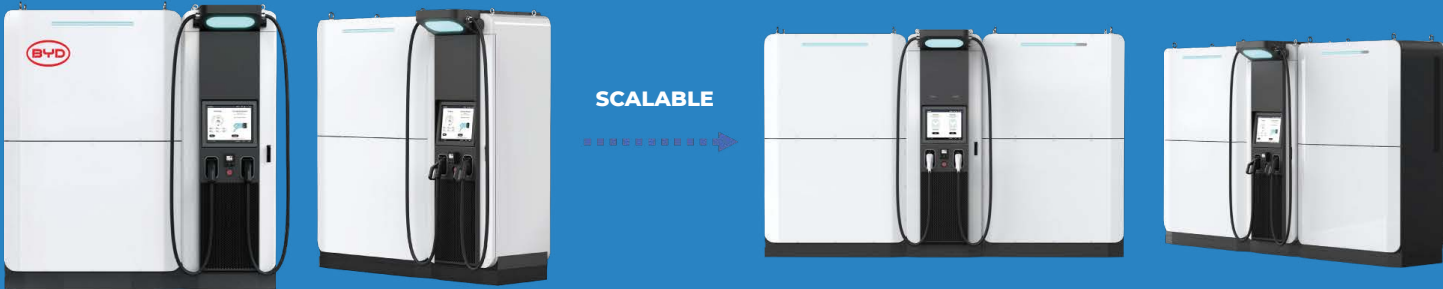


BYD NET ZERO INTEGRATED SYSTEM

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	3Phrase 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
	IP Ranking	IP65
Standard	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

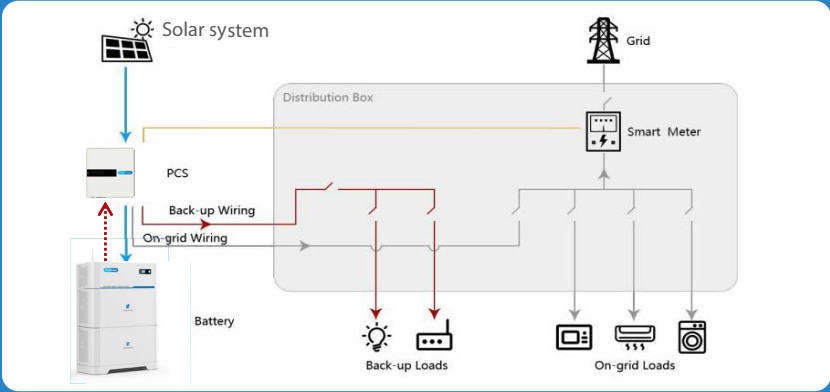
Voltage Range (V)	83.2~115.2	166.4~230.4	249.6~345.6	332.8~460.8
Charging & Discharging Current (A)	25@continue (Recommended)			
Charging & Discharging Current (A)	50@continue (Max)			

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(℃)	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



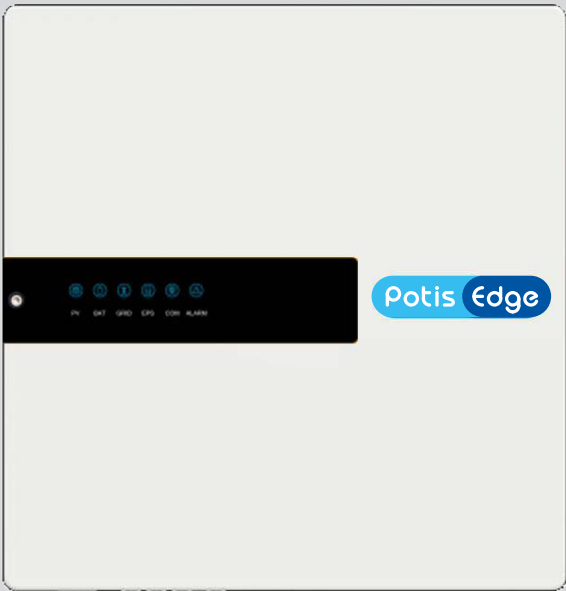
THREE-PHASE HYBRID INVERTER, 5-10KW

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

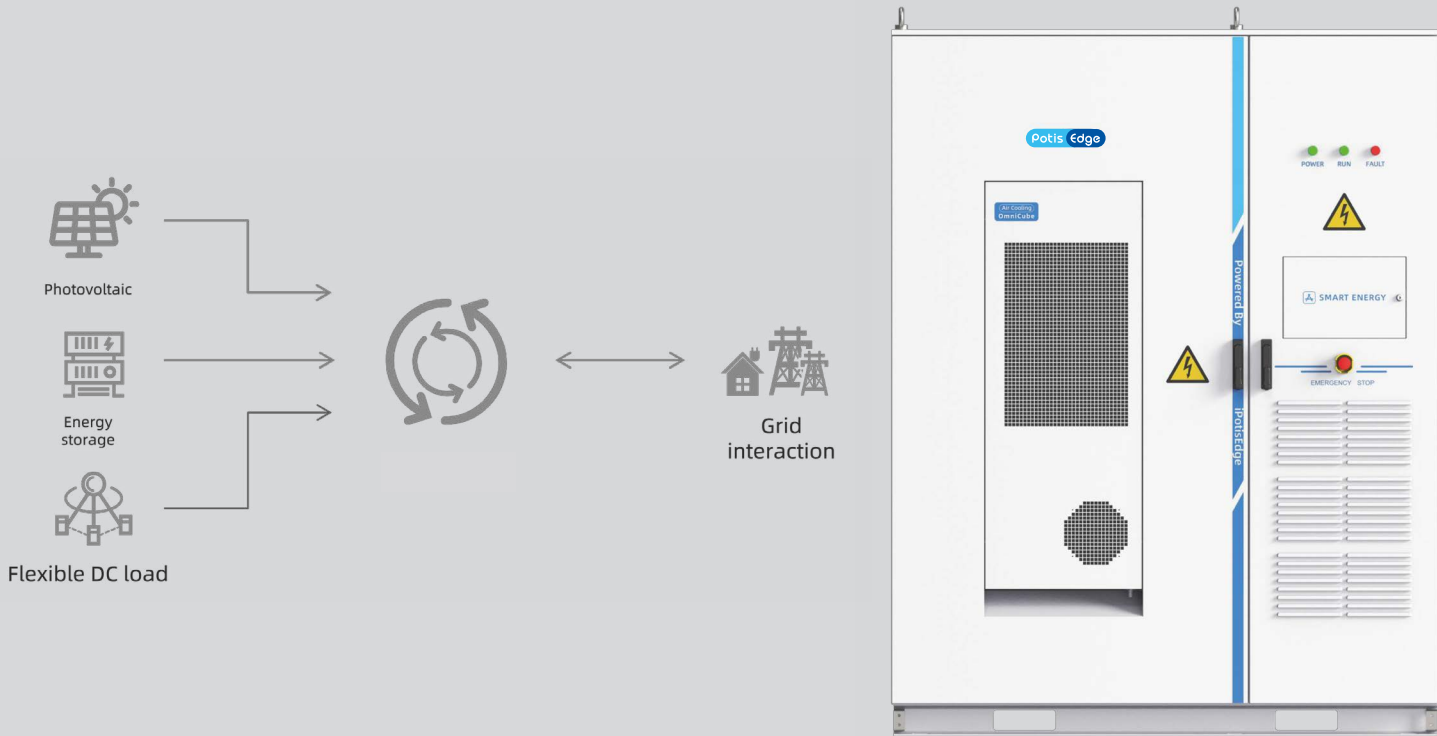


All models offer a wide range of settings, including charging current, output voltage and frequency, which ensure that the inverter can be easily adapted to different home energy systems.

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℃
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℃ 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℃±2℃）
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 (kW)	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 AC 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 Degradation 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	Intertared	
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

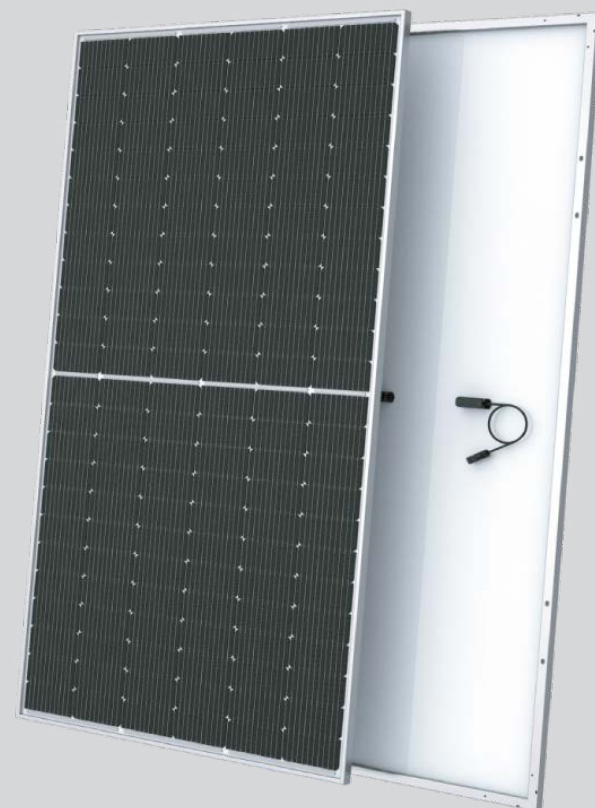
MONOCRYSTALLINE SOLAR PANEL MODULE (72 CELLS)

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 curent-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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