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Renewable Solution Provider

Agriculture Solar | Residential Solar | Outdoor Solar | EV Charging



2023 Q3

www.wayinwatt.com

NEW ENERGY FOR PHOTOVOLTAIC POWER GENERATION

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About Wayin



Establish Since 2016, **WAYIN** is a group company offering the most competitive products to oversea customers. We have served more than 50+ customers in area of hardware & electromechanical and automotive solutions in the past 8 years.

Renewable solution is our latest going-deep application, supporting worldwide clients develop new energy business.

No matter you need, we'd like to help you.
You can find the way in here.

Wayinwatt is a professional team of WAYIN group dedicated for renewable market. We have long been committed to the photovoltaic energy storage industry and have served most of the photovoltaic energy storage customers in China. We have established long-term and stable strategic cooperation relationships with domestic manufactures.

Our focus is on **residential energy, outdoor energy, green agriculture and EV Charing**. Our goal is to create a stable new energy supply chain for global new energy partners based on China's manufacturing. We have carefully selected photovoltaic panels, inverters, generators, and photovoltaic water pumps from leading domestic new energy manufacturing companies, and have made every effort to provide professional, reliable, convenient, and cost-effective new energy solutions for new energy business partners around the world.

We hope to work together with new energy partners around the world to contribute to a greener planet. At **Wayinwatt**, we are positive and optimistic about the future of new energy, and we are dedicated to promoting sustainable development. Let us work together to achieve a **brighter, cleaner, and greener future!**

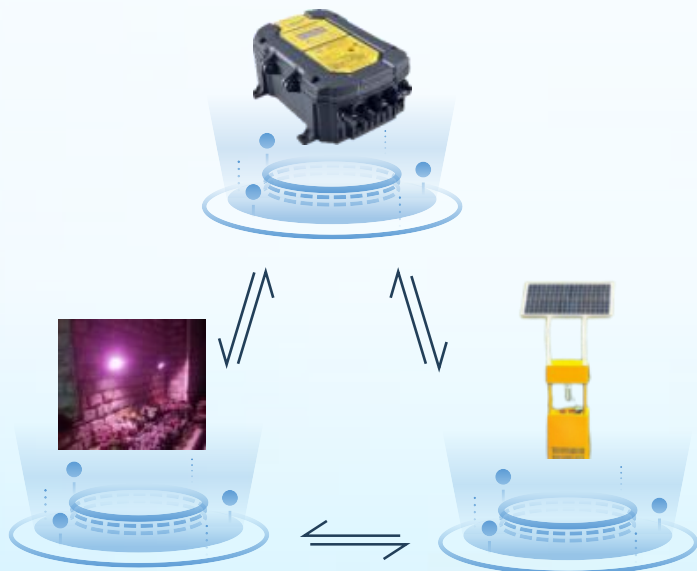
NEW ENERGY FOR PHOTOVOLTAIC POWER GENERATION

Renewable Energy Solutions

Agriculture Solar

Solar Pump

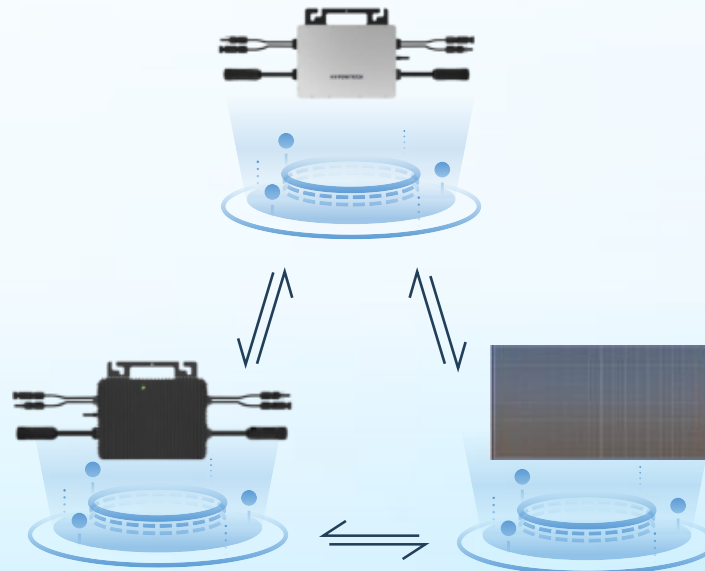
Solar Lamp



Residential Solar

Micro Inverter

PV Panel



Renewable Energy Solutions

Outdoor Solar

Portable ESS

Folding PV Panel

Generator



EV Charing

DC Charger

AC Charger



Agriculture Solar Solution



Agriculture Solar

Solar Pump

Solar Lamp



HISTORY	More Than 7 Years Experience Of Manufacturing Dc Solar Pumps And Solar Inverter.
SCALE	Factory covers an area of 11000m ² , more than 100 employees.
TECHNOLOGY	A Group Of Professional Technical Engineers A Strong R&D Team.
INNOVATION	Continuously Innovate And Diversify Products Range To Satisfy Customer Needs.

A large array of solar panels installed in a field, with a city skyline visible in the background under a blue sky with clouds.

Our Manufacture



NEW ENERGY FOR PHOTOVOLTAIC POWER GENERATION

Deep well pump series

6000 RPM Hero Product

**HIGH-SPEED
FREQUENCY CONVERSION
DEEP WELL PUMP**

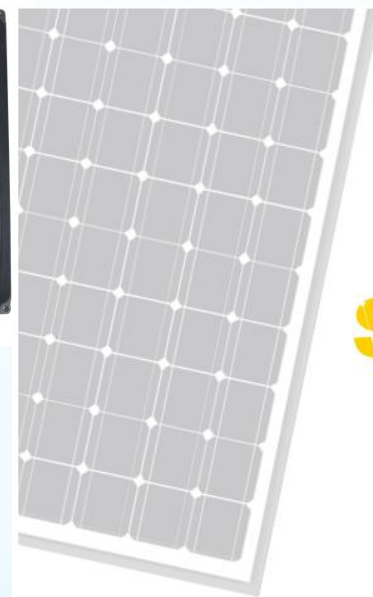
6000 RPM AC Pump /
6000 RPM AC/DC Solar Pump



HIGH SPEED



BIG FLOW / BIG HEAD



Making Life Easier 

**SOLAR
PUMP**



Practical Series



PRACTICAL SOLAR PUMP



1. DC SOLAR PUMP

2" DC SCREW/IMPELLER SOLAR PUMP

3" 4" DC SS SCREW SOLAR PUMP

3" DC PLASTIC IMPELLER SOLAR PUMP

3" DC SS IMPELLER SOLAR PUMP

4" DC PLASTIC IMPELLER SOLAR PUMP

4" 6" BRUSHLESS SS IMPELLER SOLAR PUMP

PSQB DC SOLAR SURFACE PUMP

PSGJ/PSZ DC SOLAR SURFACE PUMP

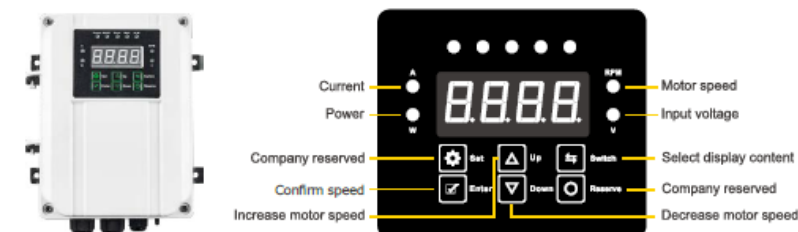
PHF DC SOLAR SURFACE PUMP

PZSU DC SOLAR SURFACE PUMP

PSP DC SOLAR SWIMMING POOL PUMP

PSG DC SOLAR SUBMERSIBLE PUMP

- ▷ Permanent magnet DC brushless motor, efficiency improved by 20~30%.
- ▷ Longer use life than normal electrical AC pump motor.
- ▷ High efficiency intelligent MPPT controller makes pump start and stop working automatically.
- ▷ Overload protection, over current protection, underload protection, under voltage protection, reverse connect protection, thermal protection, well shortage water protection, soft start.
- ▷ Controller LED screen displays voltage, current, power, speed RPM, adjusting speed, error code.
- ▷ Controller waterproofing grade IP54.
- ▷ Ambient temperature: -15~70 °C.



SOLAR PANELS CONNECTION FOR DC SOLAR PUMP

DC Pump	DC Input Voltage V0C [V]	Solar Panels Connection	
12V 200W	11~55		12V Battery Solar panel: 150Wp*2PCS
24V 180/250/300W	11~55		250Wp*1PC 330Wp*1PC
48V 400W	45~100		250Wp*2PCS 300Wp*2PCS
72V 600W	60~150		250Wp*3PCS 300Wp*3PCS
96V 750W	60~200		250Wp*4PCS 300Wp*3PCS
144V 1100W	90~340		250Wp*6PCS 300Wp*5PCS
72V 1100W	60~150		250Wp*6PCS 300Wp*6PCS
192V 1500W	90~430		250Wp*8PCS 300Wp*7PCS
96V 1500W	60~200		250Wp*8PCS 300Wp*8PCS
280V 2200W	100~490		250Wp*12PCS 300Wp*10PCS
385V 3000W	280~780		250Wp*16PCS 300Wp*13PCS

2. AC/DC SOLAR PUMP

3" AC/DC PLASTIC IMPELLER SOLAR PUMP

3" AC/DC SS IMPELLER SOLAR PUMP

4" AC/DC PLASTIC IMPELLER SOLAR PUMP

4" 6" AC/DC SS IMPELLER SOLAR PUMP

PSGJ-H/PZSU-H AC/DC SOLAR SURFACE PUMP

PHF-H AC/DC SOLAR SURFACE PUMP

PSP-H AC/DC SOLAR SWIMMING POOL PUMP

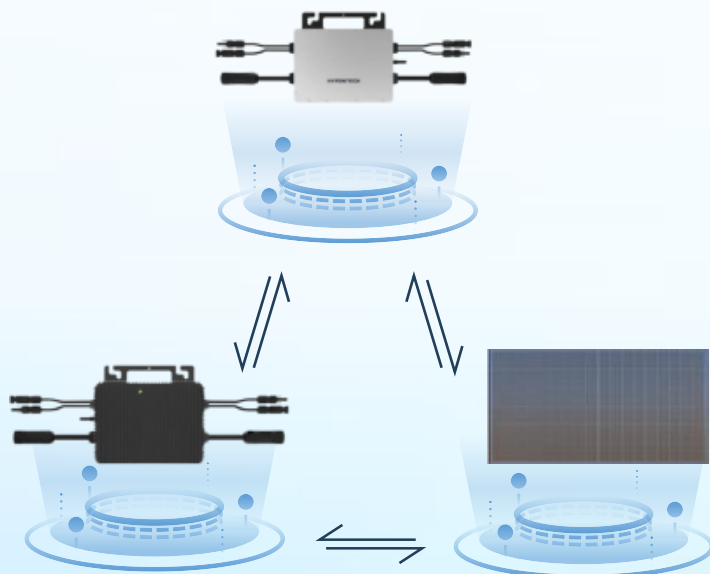
PSG-H AC/DC SOLAR SUBMERSIBLE PUMP

Residential Solar Solution

Residential Solar

Micro Inverter

PV Panel



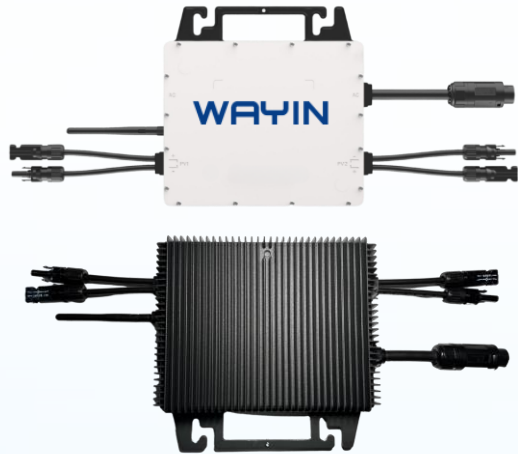
Our Manufacture



NEW ENERGY FOR PHOTOVOLTAIC

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Microinverter Series



Micro Inverter Off Grid Solar System

Model: HMS-600-800W-C

Descriptions:

HMS-600-800W-C is single Phase micro inverter, supports up to 2*MPPTs, which is mainly target for balcony and other off grid solar system. It can provide stable power for up to 800W stand alone electronic system.

Product Introduction

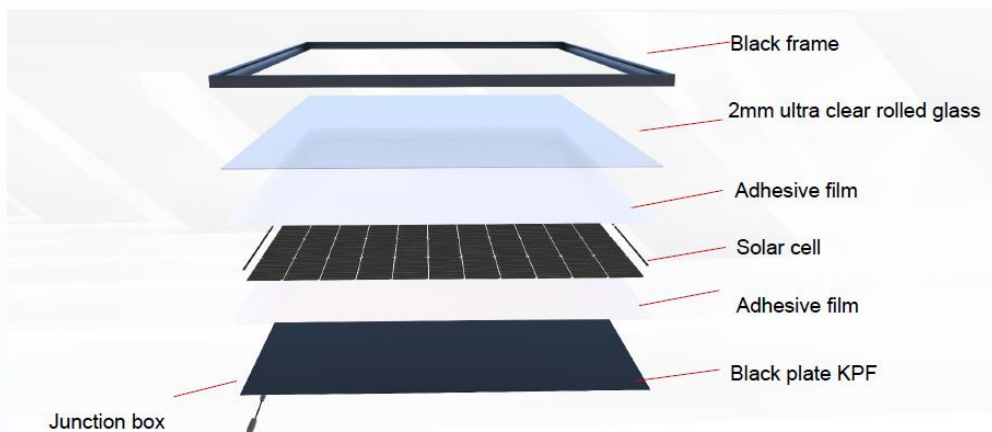
Introduction:

We are a high-quality solar inverter manufacturer in China, and we are proud to introduce our flagship product, the 600-800W-C solar microinverter, to the market. This product is designed for various off-grid solar applications, including balcony solar, LSEV charging stations, Drone charging, agricultural water pumps, agricultural lighting, village security, traffic lights, and recreational vehicles, providing green energy support for both residential and commercial users.

Specifications of Microinverter	HMS-600W-C	HMS-800W-C
PV Input		
Recommended Power of PV Module /W	320-450(2pcs)	360-550(2pcs)
Max.Input Voltage /V	60	60
MPP Voltage Range /V	25-55	25-55
Start Up Voltage /V	16	16
Max.Input Current /A	15/15	15/15
Max.Short Circuit Current /A	20/20	20/20
AC Output		
Rated Power /W	600	800
Rated Grid Voltage AC /V	220/230/240	220/230/240
Grid Connection	L-N-PE	L-N-PE
Rated Grid Frequency /Hz	50/60	50/60
Max.Output Current /A	2.7	3.6
Power Factor	>0.99	>0.99
THDi @Rated Power	<3%	<3%
Efficiency		
Max.Efficiency	96.50%	96.50%
MPPT Efficiency	>99.9%	>99.9%
Protection Function		
Anti-Islanding Protection	Integrated	Integrated
PV String Input Reverse Polarity	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated
Output Short Circuit Protection	Integrated	Integrated
Over Voltage Protection	Integrated	Integrated
Surge Protection	DC Type2, AC Type2	DC Type2, AC Type2



Rigid Solar Panel



Installation requirements for the bearing capacity of balcony railings



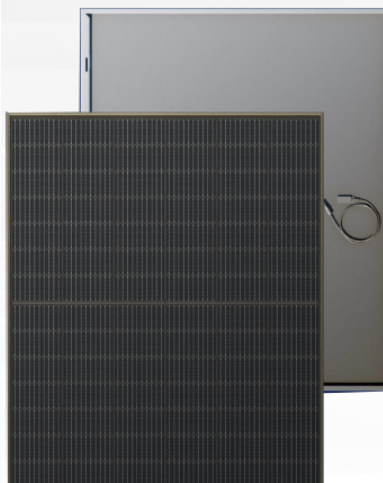
Bearing capacity in the horizontal direction of the balcony: not less than 1500N

Bearing capacity in the vertical direction of the balcony: not less than 1500N

Notes:

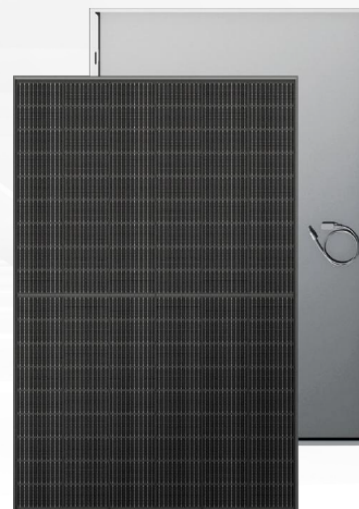
Fast solar products can only be installed if the bearing capacity of existing balconies and railings meets the bearing capacity requirements of JG/J T 470-2019 "Technical Standards for Building Protection Railings".

Rigid solar panel 310W



310W specification and parameter	
Size	1133mm*1365mm*30mm
Exterior color	All black matte
Package type	2.0mm GLASS +POE+CELLS+POE+black back plate
Solar cell	Mono 182 half piece 6*14 arrangement
Peak power (Pmax)	310W
Working current (Impp)	12.88 A
Shortcut current(Isc)	13.69 A
Open circuit voltage (Uoc)	28.6 V
Working voltage (Umpp)	24.07 V
Weight per unit area	8.5
Windproof rating	Strong winds of level 12
Anti-hail rating	Class 4 (ANSI FM4473)
Component waterproof level	IP67

Rigid solar panel 400W



400W specification and parameter	
Size	1761mm*1133mm*30mm
Exterior color	All black matte
Package type 封装	2mm GLASS +POE+CELLS+POE+black back plate
Solar cell	Mono 182 half piece 6*18 arrangement
Peak power (Pmax)	400W
Working current (Impp)	12.9 A
Shortcut current(Isc)	13.69 A
Open circuit voltage (Uoc)	36.91 V
Working voltage (Umpp)	31.01 V
Weight per unit area	8.5
Windproof rating	Strong winds of level 12
Anti-hail rating	Class 4 (ANSI FM4473)
Component waterproof level	IP67
Installation method	Triangular support hanger fixed

Outdoor Solar Solution



Outdoor Solar

Portable ESS

Folding PV Panel

Generator



23.8% CONVERSION EFFICIENCY

Cell Phone-45 Min Full Sun with QC3.0

Tablet-2.5 Hrs Full Sun with Type-C

Laptop-3.5 Hrs Full Sun with Type-C

Jackery Explorer 240-3 Hrs Full Sun with DC port

Tips: The values just for reference, the actual output is affected by light conditions.

Outdoor Scenario



NEW ENERGY FOR PHOTOVOLTAIC POWER GENERATION

Portable Solar Panel



HIGH COMPATIBILITY

With DC output and USB output, it can charge USB devices and different sizes of DC connectors for most portable generators



Adventurer series Portable Solar Charger



Style	Cowboy	Fashion	Sport
Maximum power	100W	100W	100W
Power tolerance	0~+3%W	0~+3%W	0~+3%W
Cell	23.8% high efficiency monocrystalline silicon	23.8% high efficiency monocrystalline silicon	23.8% high efficiency monocrystalline silicon
Operating voltage	20.4V	20.4V	20.4V
Operating current	5.15A	5.15A	5.15A
Open circuit voltage	24.6V	24.6V	24.6V
Short circuit current	5.48A	5.48A	5.48A
Working temperature	-20°C~+70°C	-20°C~+70°C	-20°C~+70°C
Folded dimension	545*390*20mm	550*380*30mm	550*375*20mm
Unfolded dimension	1200*545*4mm	1115*550*5mm	1270*550*3mm
DC output	8020, 5521, XT60 (customizable)	8020, 5521, XT60 (customizable)	8020, 5521, XT60 (customizable)
Weight	2.7kg	3.1kg	3.1kg
Material	Waterproof denim+cow leather+solar panel	Waterproof denim+cow leather+solar panel	Waterproof denim+cow leather+solar panel

*Outdoor testing conditions by International standard: 1000W/㎡, AM1.5, 25°C

Flexible Solar Panel

LIGHT, THIN AND FLEXIBLE

WAYIN



Mono PERC Flexible solar Module

Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	100QH033S	150QH051S	200QH068S-C
Maximum power	W	100	150	200
Power tolerance	W	0~+3%	0~+3%	0~+3%
Cells Efficiency	%	≥23	≥23	≥23
Voltage at Max. Power (Vmp)	V	19.13	28.63	19.13
Current at Max. Power (Imp)	A	5.23	5.24	10.46
Open Circuit Voltage (VOC)	V	22.73	33.97	22.73
Short Circuit Current (ISC)	A	5.50	5.50	11
Dimension	mm	1030*530*2.0	1530*530*2.0	1530*700*2.0
Weight	Kg	1.3	1.85	2.5

STC: AM=1.5, Irradiation 1000W/m2, Module Temperature 25°C

Flexible Solar Panel



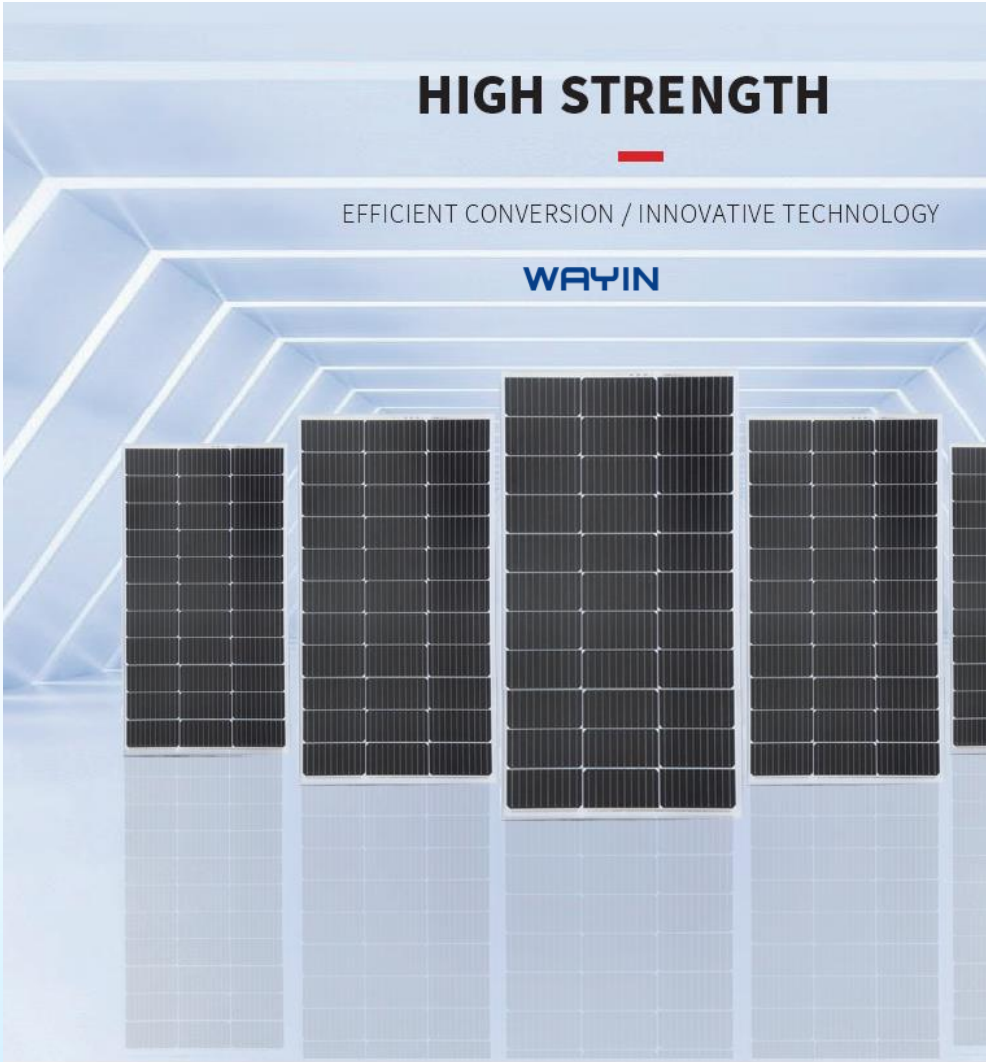
Mono PERC Flexible solar Module

Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	XLASP110QH36S	XLASP140QH48S	XLASP375QH126S
Maximum power	W	110	140	375
Power tolerance	W	0~+3%	0~+3%	0~+5
Cells Efficiency	%	23.8	23.8	23.8
Voltage at Max. Power (Vmp)	V	20.5	27.3	35.3
Current at Max. Power (Imp)	A	5.37	5.13	10.62
Open Circuit Voltage (VOC)	V	24.4	32.4	42.8
Short Circuit Current (ISC)	A	5.69	5.45	11.23
Dimension	mm	1075*535*1.7	1423*540*1.7	1840*1040*2.5
Weight	Kg	1.4	2.2	6.3
Bending Angle		245.244°	245.244°	245.244°

STC: AM=1.5, Irradiation 1000W/m2, Module Temperature 25°C

Flexible Solar Panel



Mono PERC Rigid solar Module

Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	100QH033	150QH051R	200QH068R
Maximum power	W	100	150	200
Power tolerance	W	0~+3%	0~+3%	0~+3%
Cells Efficiency	%	≥23	≥23	≥23
Voltage at Max. Power (Vmp)	V	18.98	28.47	38.04
Current at Max. Power (Imp)	A	5.38	5.27	5.26
Open Circuit Voltage (VOC)	V	22.72	33.64	45.06
Short Circuit Current (ISC)	A	5.75	5.54	5.53
Dimension	mm	980*530*25	1490*530*25	1490*700*25
Weight	Kg	5.2	7.8	13

STC: AM=1.5, Irradiation 1000W/m2, Module Temperature 25°C

EV Charing



EV Charing

DC Charger

AC Charger



DC Charing



X20067S1

We provide 'Made in Europe' option*

Introduction

The smart EV AC2DC charging module meets specific CE standards and is designed for indoor/outdoor application with output voltage range of 50Vdc~1000Vdc. It has high efficiency and high power density, particularly thorough gel filled technology ensures higher protection capacity than competitors, super low standby power consumption reduces the cost during product life cycle.

Main Features

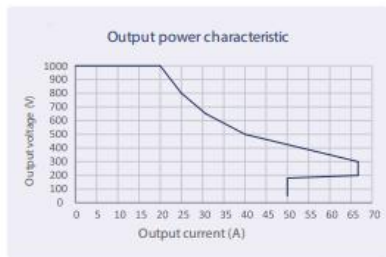
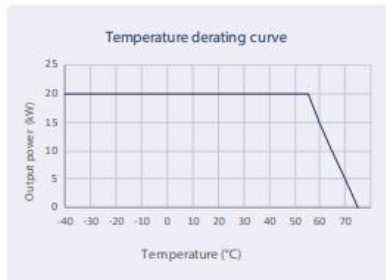
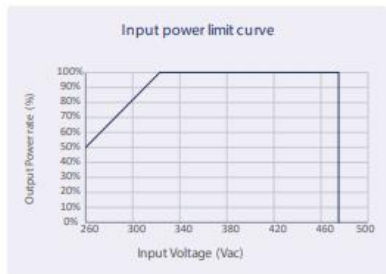
- Gel filled ensures stronger environmental suitability
- Dynamic protection algorithm provides better protection strategy and higher reliability
- Lower standby power consumption is as low as 7W
- 3 phase without neutral eliminates the risk of high neutral currents
- Built-in voltage discharge circuit

Application

Charging module is designed for split type DC charger and integral DC charger to supply power to electrical vehicles. Modular design has distinct advantages of high scalability, easy on installation, maintenance, replacement and upgrade, cost efficiency, and redundancy.

Specification

Input	Input voltage	285~475Vac
	Wiring	3 phases 4 wires(3W+PE)
	Input frequency	45~65Hz, rated: 50 Hz
	THDi	≤3% rated input and full load output
	Power factor	≥0.99, full load
Output	Output voltage	50-1000Vdc
	Max output current	66.7A
	Output power	20kW (300~1000Vdc)
	Short circuit protection	Current limit when in output short circuit, auto recovery
	Voltage regulation	≤±0.5%
Communication and Alarm	Current regulation	≤±1%
	Communication	CAN
	Max number for parallel	60 modules
	Module address	Support both SW setting and HW setting
Key Spec	Dimention (W × D × H)	218 mm × 458 mm × 84 mm
	Weight	<12 kg
	Efficiency	>95% at full load, max efficiency point 96.2%
	Cooling	Fan cooling
Operating Environment	Operating temperature	-40°C~ +75°C
	Humidity	Less than 98%RH@-40~ +75°C
	Noise	≤ 65 dB@ full load in 25°C



DC Charing



X30100A1

We provide 'Made in Europe' option*

Introduction

The smart EV AC2DC charging module meets specific CE standards and is designed for indoor/outdoor application with output voltage range of 50Vdc~1000Vdc. It has high efficiency and high power density, particularly thorough gel filled technology ensures higher protection capacity than competitors, super low standby power consumption reduces the cost during product life cycle.

Main Features

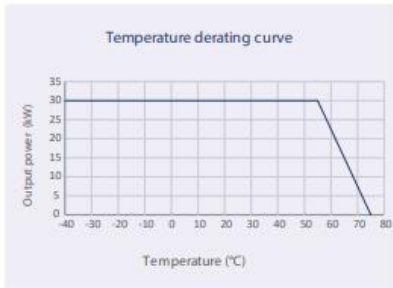
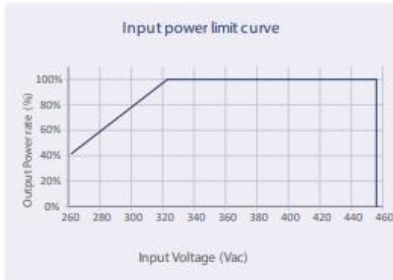
- Gel filled ensures stronger environmental suitability
- Dynamic protection algorithm provides better protection strategy and higher reliability
- Lower standby power consumption is as low as 7W
- 3 phase without neutral eliminates the risk of high neutral currents
- Built-in voltage discharge circuit

Application

Charging module is designed for split type DC charger and integral DC charger to supply power to electrical vehicles. Modular design has distinct advantages of high scalability, easy on installation, maintenance, replacement and upgrade, cost efficiency, and redundancy.

Specification

Input	Input voltage	260~456Vac
	Wiring	3 phases 4 wires(3W+PE)
	Input frequency	45~65Hz, rated: 50 Hz
	THDi	≤3% rated input and full load output
	Power factor	≥0.99, full load
Output	Output voltage	50-1000Vdc
	Max output current	100A
	Output power	30kW (300~1000Vdc)
	Short circuit protection	Current limit when in output short circuit, auto recovery
	Voltage regulation	≤±0.5%
	Current regulation	≤±1%
Communication and Alarm	Communication	CAN
	Max number for parallel	60 modules
	Module address	Support both SW setting and HW setting
Key Spec	Dimention (W × D × H)	350 mm × 430mm × 84 mm
	Weight	<17 kg
	Efficiency	>95% at full load, max efficiency point 96.2%
	Cooling	Fan cooling
Operating Environment	Operating temperature	-40°C~ + 75°C
	Humidity	Less than 98%RH@-40~ + 75°C
	Noise	≤ 65 dB@ full load in 25°C



DC Charing



X40133A1

We provide 'Made in Europe' option*

Introduction

The smart EV AC2DC charging module meets specific CE standards and is designed for indoor/outdoor application with output voltage range of 50Vdc~1000Vdc. It has high efficiency and high power density, particularly thorough gel filled technology ensures higher protection capacity than competitors, super low standby power consumption reduces the cost during product life cycle.

Main Features

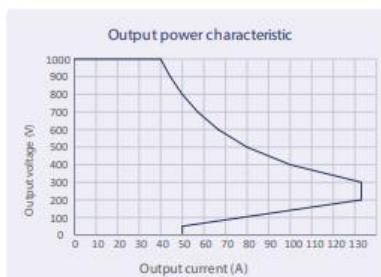
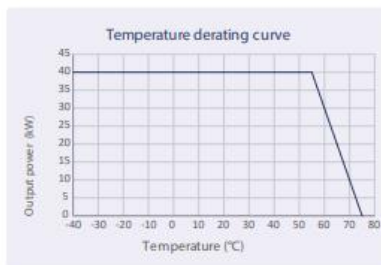
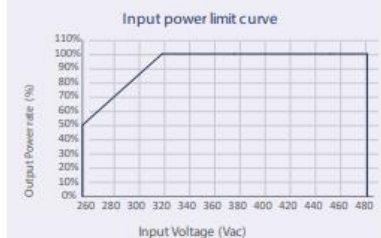
- TUV CE UL certification
- Gel filled ensures stronger environmental suitability
- Dynamic protection algorithm provides better protection strategy and higher reliability
- 0W standby power consumption (external control)
- 3 phase without neutral eliminates the risk of high neutral currents
- Built-in voltage discharge circuit

Application

Charging module is designed for split type DC charger and integral DC charger to supply power to electrical vehicles. Modular design has distinct advantages of high scalability, easy on installation, maintenance, replacement and upgrade, cost efficiency, and redundancy.

Specification

Input	Input voltage	260~485Vac
	Wiring	3 phases 4 wires(3W+PE)
	Input frequency	45~65Hz, rated: 50 Hz
	THDi	≤3% rated input and full load output
	Power factor	≥0.99, full load
Output	Output voltage	50-1000Vdc
	Max output current	133A
	Output power	40kW (300~1000Vdc)
	Short circuit protection	Current limit when in output short circuit, auto recovery
	Voltage regulation	≤±0.5%
	Current regulation	≤±1%
Communication and Alarm	Communication	CAN
	Max number for parallel	60 modules
	Module address	Support both SW setting and HW setting
Key Spec	Dimension (W × D × H)	300 mm × 438 mm × 84 mm
	Weight	<20 kg
	Efficiency	≥95.5% at full load, max efficiency point ≥96%
	Cooling	Fan cooling
Operating Environment	Operating temperature	-40°C ~ +75°C
	Humidity	Less than 98%RH@-40~+75°C
	Noise	≤60 dB@ full load in 25°C



AC Charing



7.3kW

Single-Phase



11kW

Three-Phase



22kW

Three-Phase



22kW

Double-Output

INNOVATIVENESS DESIGN 01

Compact size, Streamline design

EASY INSTALLATION 02

Wireless communication (WiFi/Bluetooth)、OCPP communication protocol with the backend、Smart charge or scheduled charge by App



03 FLEXIBLE OPTION

Type 2 cable/socket version、App operation or plug and play、Wall-mounted or floor-stand installation

04 SECURE AND SAFE

6mA DC residual current protection、Anti-welding protection、IP65 rated

NEW ENERGY FOR PHOTOVOLTAIC POWER GENERATION

AC Charing

7.3KW EV Charger

MODEL	A7300P1-E	A7300S1-E
TYPE	CHARGING PLUG	CHARGING SOCKET
INPUT		
Wiring Scheme	1P+N+PE	
Voltage	230Vac, ±20%	
Maximum Current	32A	
Frequency	50/60Hz	
OUTPUT		
Voltage	230Vac, ±20%	
Maximum Current	32A	
Rated Power	7.3kW	
USER INTERFACE & CONTROL		
Connector Type	Type 2 cable	Type 2 socket
RFID Reader	Mifare ISO/IEC 14443 A	
Start Mode	Plug&Play/RFID card/App	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G	Optional (coming soon)	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional (coming soon)	
ENVIRONMENT		
Installation	Wall-mount / Post-mount	
Operating Temperature	-30°C ~ 50°C	
Operating Humidity	5% ~ 95% No condensation	
Operating Altitude	≤2000m	
DIMENSION AND WEIGHT		
Product Dimension	320*190*130 mm	320*190*144.5 mm
Product Weight	3.55kg	2.0kg
SAFETY		
IP protection rating	IP55	
IK protection rating	IK08	
Residual Current Detection	AC 30mA / DC 6mA	
Electrical Protection	Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under frequency protection, Over/Under temperature protection	
EMC	Class B	
Certification	CE	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	

11KW EV Charger

MODEL	A011KP1-E-2	A011KS1-E-2
TYPE	CHARGING PLUG	CHARGING SOCKET
INPUT		
Wiring Scheme	3P+N+PE	
Voltage	400Vac, ±20%	
Maximum Current	16A	
Frequency	50/60Hz	
OUTPUT		
Voltage	400Vac, ±20%	
Maximum Current	16A	
Rated Power	11kW	
USER INTERFACE & CONTROL		
Connector Type	Type 2 cable	Type 2 socket
RFID Reader	Mifare ISO/IEC 14443 A	
Start Mode	Plug&Play/RFID card/App	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G	Optional	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional	
ENVIRONMENT		
Installation	Wall-mount / Post-mount	
Operating Temperature	-30°C ~ 50°C	
Operating Humidity	5% ~ 95% No condensation	
Operating Altitude	≤2000m	
DIMENSION AND WEIGHT		
Product Dimension	320*190*130 mm	320*190*144.5 mm
Product Weight	3.55kg	2.0kg
SAFETY		
IP protection rating	IP55	
IK protection rating	IK08	
Residual Current Detection	AC 30mA/DC 6mA	
Electrical Protection	Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under frequency protection, Over/Under temperature protection	
EMC	Class B	
Certification	CE	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	

Thank You!

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