



Installation Manual

Please read this manual carefully before installing and using the modules.

It is the great honor to provide you with our PV modules. In order to enable the PV module to be installed correctly and to generate electric power properly, please read the following operation instruction carefully.

Warning:

1. The maximum load test on the module surface must not exceed 5400Pa. For our modules, designed mechanical load of front face is 3600Pa and safety factor is 1.5; designed mechanical load of back face is 1600Pa and safety factor is 1.5.
2. Artificially concentrated sunlight shall not be directed on the module or panel.
3. Safety class is class II.
4. If the module is to be mounted to a roof of a building, the assembly is to be mounted over a fire resistant roof covering rated for the application for the non - integral module. Any slope less than 127mm/300mm required to maintain a fire class rating. It is stated that the assembly is to be mounted over a fire resistant roof covering rated for the fire class C application. The fire class rating of modules is Class C.
5. Modules rated for use in this application class may be used in systems operating at greater than 50V DC or 240W, where general contact access is anticipated. Modules qualified for safety through this part of IEC61730 and IEC61730-2 and within this application class are considered to meet the requirements for safety class II.
6. Under normal conditions, a photovoltaic module is likely to experience conditions

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that produce more current and/or voltage than reported at standard test conditions. Accordingly, the value of Isc and Voc marked on this module should be multiplied by of 1.25 when determining component voltage ratings, conductor current ratings, fuse sizes, and size of controls connected to the PV output.

7. Do not touch live terminals with bare hands. Use insulated tools for electrical connections.

8. To reduce the risk of electrical shock or burns, modules may be covered with an opaque material during installation to avoid shocks or burns.

9. The installation work of the PV array can only be done under the protection of sun-sheltering covers or sunshades and only qualified person can install or perform maintenance work on this module.

10. Follow the battery manufacture's recommendations if batteries are used with modules.

11. All instructions should be read and understood before attempting to install, wire, operate and maintain the module.

12. If instructions are provided allowing modules to be installed in parallel electrically, the installation instructions shall specify that each module (or series string of modules so connected) shall be provided with the maximum series fuse.

13. Recommended maximum series/parallel module configurations;

$[\frac{1500V}{(1.25 * Voc)}] / [\text{fuse rating} / I_{sc} + 1]$.

Unpacking

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After the PV module has been shipped to the installation site all of the parts should be unpacked properly with care.

Caution: The condign environment for unpacking the modules and all other apparatus should be proofed against dampness and rainfall.

Preparation before Installation:

1. Optical check before installation, to make sure there is no bug in the packing and junction box as well as the surface of module.

2. Check the series number

3. Check the solar cell modules with irradiance of more than $600\text{W}/\text{m}^2$ and get the voltage. In case the voltage is ZERO, it should NOT be installed and please contact the supplier.

4. Tools & Material for Installation

① Screwdriver

② Use at minimum 4 clamps to attach a module to the mounting rails. Unless the clamps are used on the first module or the last module of a row of the PV modules, one clamp fixes two PV modules. The clamps should not contact the front glass of modules, and must not deform the frames. Be sure to avoid shadowing effects from the module clamps.

③ Each clamp matches with a set of a screw, a nut and two washer.

④ The users should design and build metallic bracket for installing and bearing the weight of the PV modules. The brackets are specially designed for users' installation

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places such as the open land or on the roof of houses.

Caution: To avoid damage from flooding and other unpredictable events, and avoid heavy impact. To design a gradient angle facing the sun radiation direction in order to insure the full sunshine receives as much as possible.

Installation environment conditions and site selection

1. The environmental conditions applicable to the installation of PV modules are as follows: The recommended operating temperature ranges from -20°C to $+50^{\circ}\text{C}$, and the limit operating temperature ranges from -40°C to $+85^{\circ}\text{C}$.
2. PV modules should be installed as far as possible in the year-round area without shade. Do not install PV modules where they may be flooded.
3. When installing solar modules on a roof, a safe working area must also be left between the edge of the roof and the outer edge of the PV modules array. When the modules are piled on the roof, the load of the roof should be checked, and the construction organization plan in accordance with the requirements of the code should be formulated.
4. When used in areas with high wind pressure and snow pressure, support fixed structures should be designed in strict accordance with local design specifications to ensure that the external load does not exceed the mechanical strength limit that the modules can bear.

5. Modules should not be immersed in water or in an environment with water (pure water or salt water) for a long time (such as fountains, waves, etc.). There is a risk of

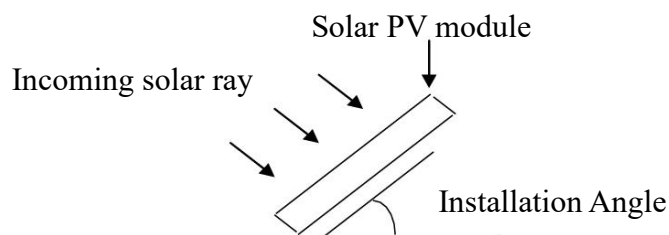
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corrosion if the modules is exposed to salt spray (i.e., Marine environment) or sulfur (i.e., sulfur source, volcano). It is not recommended to install PV modules within 0.1km of the Marine environment. Install salt spray resistant PV modules between 0.1km and 1km, and make anti-corrosion treatment for installation parts.

Installation Angle selection



1. Installation inclination Angle refers to the included Angle between the PV module and the ground plane.
2. The modules installed in series shall have the same orientation and inclination. Differences in orientation or inclination (illumination differences) may result in loss of output power.
3. The maximum amount of power is usually generated when sunlight hits the module vertically. The installation Angle of modules is no less than 15° . The specific Angle can be selected according to the local design rules, specifications, regulations or the recommendations of PV module installers.
4. In the Northern hemisphere, modules is usually installed with the light receiving side facing south. In the southern hemisphere, components are usually installed with their light receiving side facing north.



5. Under certain installation conditions, the backside of the bifacial PV modules will also generate electricity after receiving the reflected light, resulting in additional generation gain, which is related to the reflectivity of the ground, the height of the module from the ground, array spacing and backside shadow occlusion. In general, different surfaces have different reflectance, resulting in different module power gain (for example, grassland reflectance ranges from 12% to 25%, and land emissivity ranges from 20% to 33%). Different ground height will also affect the gain of the bifacial PV modules. The recommended installation height is 1 to 2 meters.

Installation and operation

1. Systems should be installed by qualified personnel only and at least two persons. The system involves electricity, and can be dangerous if the personnel are not familiar with the appropriate safety procedures.

2. Do not step on the module.

3. Although modules are quite rugged, the glass can be broken (and the module will no longer work properly) if it is dropped or hit by tools or other objects.

4. Put the PV modules on the frames and connect each two modules with clamps. Install the screw, gasket and nut in turn, tighten the screws, and firmly combine the modules and frames. All the screw caps should be finished on the frame together firmly.

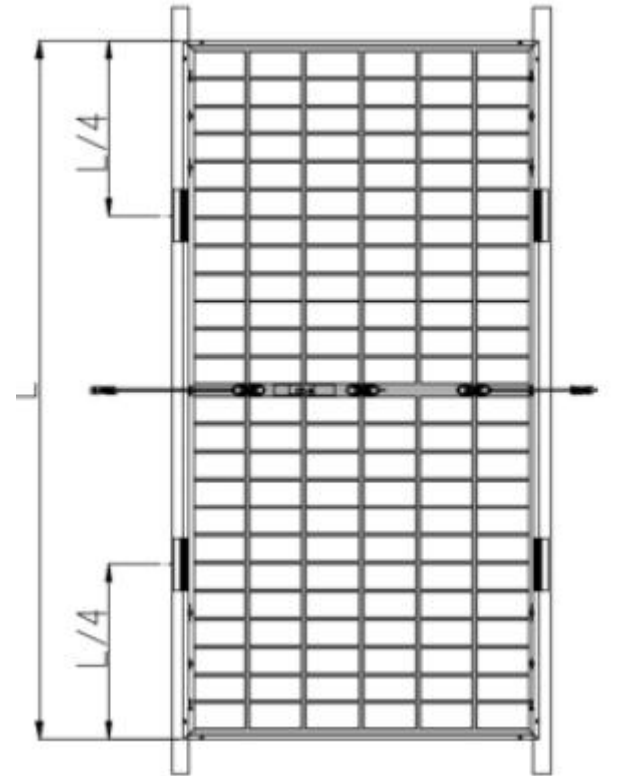
The module frame is made of anodized aluminum, and therefore corrosion can occur if the module is subject to a salt-water environment with contact to a rack of another type of metal. (Electrolysis Corrosion) if required. PVC or stainless steel washers can be

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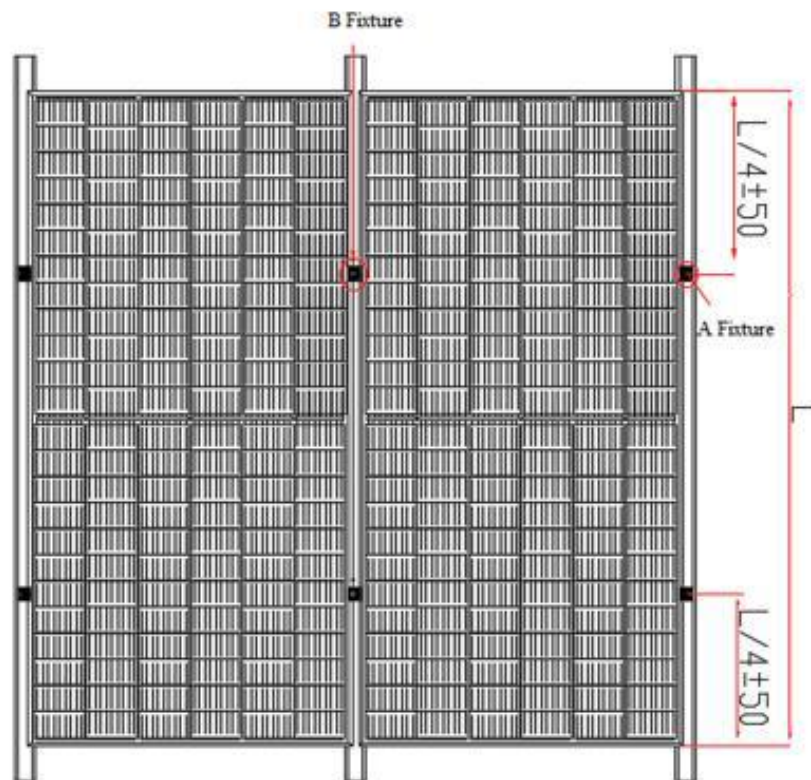
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placed between the solar module frame and support structure to prevent this corrosion.

	+5400/-2400Pa
	35/30 frames
Mounting at the long side by clamp	

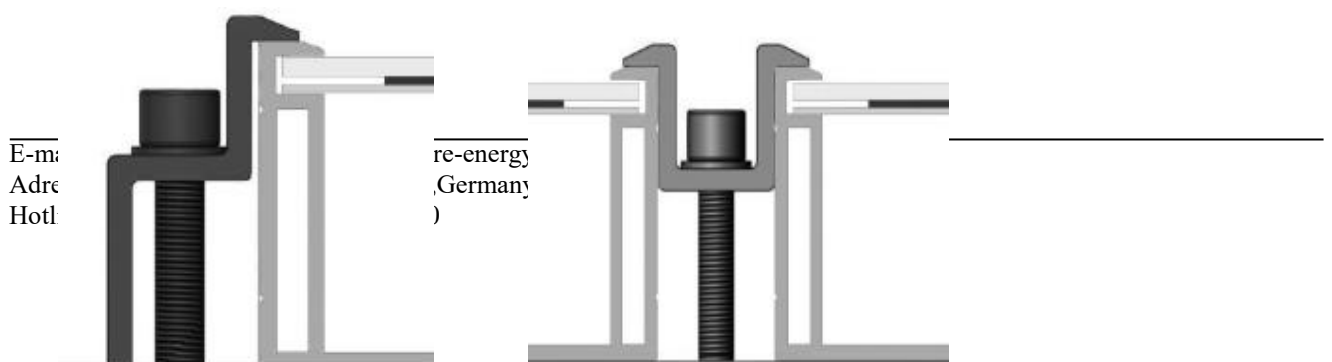
Installation position and corresponding load relation (Mounting by clamp)



Mounting Details

5. At least 4 clamps are required on each module, two clamps should be attached on each long side of the module (for portrait orientation). Depending on the local Snowstorm Weather conditions, additional clamps may be required to ensure that the modules can withstand loads. The applied torque should refer to mechanical design standards according to the bolts used by customers.

The recommended standoff height is 20 cm. If other mounting means are employed this may affect the TUV Listing or the fire class ratings. The mounting tilt angle should be in accordance with local condition.



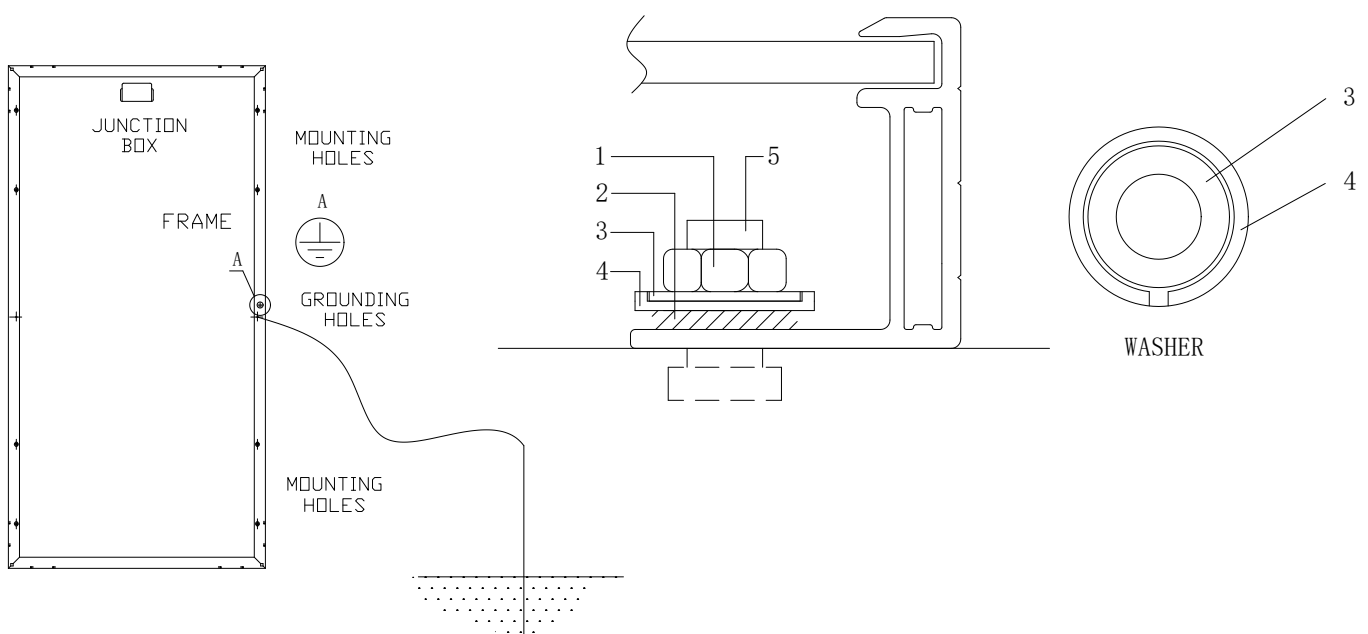
End Clamp installation

Middle Clamp installation

The module has been evaluated by TUV for mounting using clamps.

6. Way of grounding:

All module frames should be grounded for safety. The grounding connections between modules must be approved by a qualified electrician, the grounding itself must be made by a qualified electrician. The ground wire should be at least the same size as the electrical conductors, ground wires no less than 4mm^2 are recommended.





1. Stainless steel M4 nut
2. Stainless steel serrated washer
3. Stainless steel washer
4. Stainless steel cupped-shape washer
5. Stainless steel M4 t-head bolt

7. Module support structures that are to be used to support modules should be wind rated and approved for use by the appropriate local and civil codes prior to installation.

8. When solar modules are used to charge batteries, the battery must be installed in a manner, which will protect the performance of the system and the safety of its users.

Follow the battery manufacturer's guidelines concerning installation, operation and maintenance recommendations. In general, the battery (or battery bank) should be away from the main flow of people and animal traffic. Select a battery site that is protected from sunlight, rain, snow, debris, and is well ventilated. Most batteries generate hydrogen gas when charging, which can be explosive. Do not light matches or create sparks near the battery bank. When a battery is installed outdoors, it should be placed in an insulated and ventilated battery case specifically designed for the purpose.

9. In most applications, PV modules should be installed in a location where they will receive maximum sunlight throughout the year. In the Northern Hemisphere, the modules should typically face south, and in the Southern Hemisphere, the modules

should typically face north. Modules facing 30 degrees away from true South (or north)

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will lose approximately 10 to 15 percent of their power output. If the module faces 60 degrees away from true South (or North), the power loss will be 20 to 30 percent. When choosing a site, avoid trees, buildings or obstructions, which could cast shadows on the solar.

Wiring and Connection:

1. Before this procedure, please read the operation instructions of the PV control system carefully.

2. Partial shading of an individual module can cause a reverse voltage across the shaded module. Current is then forced through the shaded area by the other modules.

When a bypass diode is wired in parallel with the series string, the forced current will flow through the diode and bypass the shaded module, thereby minimize module heating and array current losses. Diodes are used as bypass diodes.

3.

Series	The number of series connection	The number of parallel connection
ME450M6-144GA	24	3
ME405M6-132GA	26	3
ME370M6-120GA	29	3



ME545M10-144GA	23	3
ME495M10-132GA	26	3
ME450M10-120GA	28	3
ME405M10-108GA	32	3
ME540G12-110GA	31	2

4. Make wiring by Multi-connecting cables between the PV modules in series or parallel connection, which is determined by user's configuration requirement for system power, current and voltage.

5. Open the connection box of the control system and connect the cabled from the PV arrays to the connection box in accordance with the installation indication of the PV control systems.

6. All module frames and mounting racks must be properly grounded in accordance with local and national electrical codes.

7. Follow the requirements of applicable local and national electrical codes.

8. Cables and Wiring

These junction boxes have been designed to be easily interconnected in series for their well-connected cable and the connector with IP68 protection grade. Each Module has two single-conductor wires, one positive and one negative, which are pre-wired inside the junction box. The connectors at the opposite end of these wires allow easy series connection of adjacent Modules by firmly inserting the positive connector of a Module into the negative connector of an adjacent Module until the connector is fully seated. Use field wiring with suitable cross-sectional areas that are approved for use at



the maximum short-circuit current of the Modules. The minimum wire size should be 4mm².

9. Connectors

Keep connectors dry and clean, and ensure that connector caps are hand tight before connecting the Modules. Do not attempt making an electrical connection with wet, soiled, or otherwise faulty connectors. Avoid sunlight exposure and water immersion of the connectors. Avoid connectors resting on the ground or roof surface.

Faulty connections can result in arcs and electrical shock. Check that all electrical connections are securely fastened. Make sure that all locking connectors are fully engaged and locked. Besides, the connector should be mated with its original female or male connector of the same supplier.

For the detailed parameter, see the below list:

Type	Manufacture	System Voltage	Rated Current	Temperature Rating
RHC2xyzu	Zhejiang Renhe Photovoltaic Technology Co.,Ltd	DC 1500V	35A	-40°C to +85°C
PV-KST4-EVO2/xy-UR; PV-KBT4-EVO 2/xy-UR,	Stäubli Electrical Connectors AG	DC 1500V	45A	-40°C to +85°C

10. Bypass Diodes

The junction boxes used with Modules contain bypass diodes wired in parallel with the PV cell strings. In the case of partial shading, the diodes bypass the current generated by the non-shaded cells, thereby limiting Modules heating and performance losses. Bypass diodes are not over-current protection devices.



For the detailed parameter, see the below list:

Type	Manufacture	Ratedcurrent
RMK4560D	Zhejiang Renhe Photovoltaic Technology Co.,Ltd	35A
RMK4545D	Zhejiang Renhe Photovoltaic Technology Co.,Ltd	30A
FMK5060D	Zhejiang Renhe Photovoltaic Technology Co.,Ltd	30A
FMK5040D	Zhejiang Renhe Photovoltaic Technology Co.,Ltd	25A
FMK4545D	Zhejiang Renhe Photovoltaic Technology Co.,Ltd	25A

Maintenance and Care:

A built up of dust or dirt on the module(s) front face will result in a decreased energy output. Clean the panel(s) preferably once per annum if possible (dependant on site conditions) using a soft cloth dry or damp, as necessary.

Never use abrasive material under any circumstances.

Examine the PV module(s) for signs of deterioration. Check all wiring for possible rodent damage, weathering and that all connections are tight and corrosion free. Check electrical leakage to ground.

Check fixing screws and mounting brackets are tight, adjust and tighten as necessary.



Date sheet for all module types of the family

Working Conditions	Mono Series
Pmax Temperature Coefficient	-0.353%/°C
Voc Temperature Coefficient	-0.272 %/°C
Isc Temperature Coefficient	+0.026 %/°C
Operating Temperature	-40~+85 °C

ME450M6-144GA Series:

	Module type	ME430M6-144GA	ME435M6-144GA	ME440M6-144GA	ME445M6-144GA	ME450M6-144GA	ME455M6-144GA
STC condition	Pmp [W] /Tolerance	430±3%	435±3%	440±3%	445±3%	450±3%	455±3%
	Voc [V] /Tolerance	48.65±2%	48.84±2%	49.05±2%	49.28±2%	49.51±2%	49.75±2%
	Isc [A]dc /Tolerance	11.49±2%	11.57±2%	11.64±2%	11.71±2%	11.78±2%	11.84±2%

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	Vmp [V]	40.72	40.88	41.08	41.28	41.47	41.70
	Imax [A]	10.56	10.64	10.71	10.78	10.85	10.91
BNPI condition	Pmp [W] /Tolerance	468±3%	474±3%	480±3%	485±3%	491±3%	496±3%
	Voc [V] /Tolerance	48.65±2%	48.84±2%	49.05±2%	49.28±2%	49.51±2%	49.75±2%
	Isc [A] /Tolerance	12.52±2%	12.61±2%	12.69±2%	12.76±2%	12.84±2%	12.91±2%
bifaciality coefficient	φPmax	69±3%	69±3%	69±3%	69±3%	69±3%	69±3%
	φVoc	99±2%	99±2%	99±2%	99±2%	99±2%	99±2%
	φIsc	72±2%	72±2%	72±2%	72±2%	72±2%	72±2%
	Maximum system voltage [V]	1500	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	25	25	25	25	25	25

ME405M6-132GA Series:

	Module type	ME395M6-132GA	ME400M6-132GA	ME405M6-132GA	ME410M6-132GA	ME415M6-132GA
STC	Pmp [W] /Tolerance	395±3%	400±3%	405±3%	410±3%	415±3%

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condition	Voc [V] /Tolerance	44.65±2%	44.85±2%	45.06±2%	45.28±2%	45.46±2%
	Isc [Adc] /Tolerance	11.50±2%	11.59±2%	11.66±2%	11.74±2%	11.83±2%
	Vmp [V]	37.37	37.52	37.74	37.93	38.07
	I _{max} [Adc]	10.57	10.66	10.73	10.81	10.90
BNPI condition	Pmp [W] /Tolerance	431±3%	436±3%	441±3%	447±3%	452±3%
	Voc [V] /Tolerance	44.65±2%	44.85±2%	45.06±2%	45.28±2%	45.46±2%
	Isc [Adc] /Tolerance	12.54±2%	12.63±2%	12.71±2%	12.80±2%	12.89±2%
bifaciality coefficient	φP _{max}	69±3%	69±3%	69±3%	69±3%	69±3%
	φVoc	99±2%	99±2%	99±2%	99±2%	99±2%
	φIsc	72±2%	72±2%	72±2%	72±2%	72±2%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	25	25	25	25	25

ME370M6-120GA Series:

Module type	ME360M6-120GA	ME365M6-120GA	ME370M6-120GA	ME375M6-120GA	ME380M6-120GA
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STC condition	Pmp [W] /Tolerance	360±3%	365±3%	370±3%	375±3%	380±3%
	Voc [V] /Tolerance	40.62±2%	40.83±2%	41.08±2%	41.28±2%	41.59±2%
	Isc [A] /Tolerance	11.53±2%	11.62±2%	11.70±2%	11.79±2%	11.85±2%
	Vmp [V]	33.96	34.14	34.35	34.53	34.80
	Imax [A]	10.60	10.69	10.77	10.86	10.92
BNPI condition	Pmp [W] /Tolerance	392±3%	398±3%	403±3%	409±3%	414±3%
	Voc [V] /Tolerance	40.62±2%	40.83±2%	41.08±2%	41.28±2%	41.59±2%
	Isc [A] /Tolerance	12.57±2%	12.67±2%	12.75±2%	12.85±2%	12.92±2%
bifaciality coefficient	φPmax	69±3%	69±3%	69±3%	69±3%	69±3%
	φVoc	99±2%	99±2%	99±2%	99±2%	99±2%
	φIsc	72±2%	72±2%	72±2%	72±2%	72±2%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	25	25	25	25	25

ME545M10-144GA Series:

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	Module type	ME530M10-144GA	ME535M10-144GA	ME540M10-144GA	ME545M10-144GA	ME550M10-144GA
STC condition	Pmp [W] /Tolerance	530±3%	535±3%	540±3%	545±3%	550±3%
	Voc [V] /Tolerance	49.61±2%	49.87±2%	49.95±2%	50.04±2%	50.28±2%
	Isc [A] /Tolerance	13.66±2%	13.72±2%	13.78±2%	13.84±2%	13.90±2%
	Vmp [V]	41.28	41.51	41.70	41.92	42.11
	Imax [A]	12.84	12.89	12.95	13.00	13.06
BNPI condition	Pmp [W] /Tolerance	578±3%	582±3%	589±3%	594±3%	600±3%
	Voc [V] /Tolerance	49.61±2%	49.87±2%	49.95±2%	50.04±2%	50.28±2%
	Isc [A] /Tolerance	14.89±2%	14.95±2%	15.02±2%	15.09±2%	15.15±2%
bifaciality coefficient	φPmax	71±3%	71±3%	71±3%	71±3%	71±3%
	φVoc	99±2%	99±2%	99±2%	99±2%	99±2%
	φIsc	70±2%	70±2%	70±2%	70±2%	70±2%
	Maximum system voltage [V]	1500	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30	30



ME495M10-132GA Series:

	Module type	ME485M10-132GA	ME490M10-132GA	ME495M10-132GA	ME500M10-132GA
STC condition	Pmp [W] /Tolerance	485±3%	490±3%	495±3%	500±3%
	Voc [V] /Tolerance	45.38±2%	45.62±2%	45.87±2%	45.98±2%
	Isc [A] /Tolerance	13.70±2%	13.76±2%	13.81±2%	13.87±2%
	Vmp [V]	37.83	38.04	38.25	38.43
	I _{max} [A]	12.82	12.88	12.94	13.01
BNPI condition	Pmp [W] /Tolerance	529±3%	534±3%	540±3%	545±3%
	Voc [V] /Tolerance	45.38±2%	45.62±2%	45.87±2%	45.98±2%
	Isc [A] /Tolerance	14.93±2%	15.00±2%	15.05±2%	15.12±2%
bifaciality coefficient	φP _{max}	71±3%	71±3%	71±3%	71±3%
	φVoc	99±2%	99±2%	99±2%	99±2%
	φIsc	70±2%	70±2%	70±2%	70±2%
	Maximum system voltage [V]	1500	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30	30



ME450M10-120GA Series:

	Module type	ME445M10-120GA	ME450M10-120GA	ME455M10-120GA
STC condition	Pmp [W] /Tolerance	445±3%	450±3%	455±3%
	Voc [V] /Tolerance	41.22±2%	41.48±2%	41.75±2%
	Isc [A _{dc}] /Tolerance	13.82±2%	13.88±2%	13.93±2%
	V _{mp} [V]	34.42	34.67	34.92
	I _{max} [A _{dc}]	12.93	12.98	13.03
BNPI condition	Pmp [W] /Tolerance	485±3%	491±3%	496±3%
	Voc [V] /Tolerance	41.22±2%	41.48±2%	41.75±2%
	Isc [A _{dc}] /Tolerance	15.06±2%	15.13±2%	15.18±2%
bifaciality coefficient	φP _{max}	71±3%	71±3%	71±3%
	φV _{oc}	99±2%	99±2%	99±2%
	φI _{sc}	70±2%	70±2%	70±2%
	Maximum system voltage [V]	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30



ME405M10-108GA Series:

	Module type	ME400M10-108GA	ME405M10-108GA	ME410M10-108GA
STC condition	Pmp [W] /Tolerance	400±3%	405±3%	410±3%
	Voc [V] /Tolerance	37.10±2%	37.33±2%	37.58±2%
	Isc [A] /Tolerance	13.80±2%	13.87±2%	13.94±2%
	Vmp [V]	30.98	31.23	31.44
	I _{max} [A]	12.91	12.97	13.04
BNPI condition	Pmp [W] /Tolerance	436±3%	441±3%	447±3%
	Voc [V] /Tolerance	37.10±2%	37.33±2%	37.58±2%
	Isc [A] /Tolerance	15.04±2%	15.12±2%	15.19±2%
bifaciality coefficient	φ _{Pmax}	71±3%	71±3%	71±3%
	φ _{Voc}	99±2%	99±2%	99±2%
	φ _{Isc}	70±2%	70±2%	70±2%
	Maximum system voltage [V]	1500	1500	1500
	Maximum Over-Current Protection Rating [A]	30	30	30

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ME540G12-110GA Series:

	Module type	ME525G12-110GA	ME530G12-110GA	ME535G12-110GA	ME540G12-110GA	ME545G12-110GA	ME550G12-110GA
STC condition	Pmp [W] /Tolerance	525±3%	530±3%	535±3%	540±3%	545±3%	550±3%
	Voc [V] /Tolerance	37.85±2%	38.07±2%	38.27±2%	38.47±2%	38.71±2%	38.93±2%
	Isc [A]dc /Tolerance	18.14±2%	18.18±2%	18.23±2%	18.29±2%	18.34±2%	18.39±2%
	Vmp [V]	30.74	30.94	31.14	31.36	31.56	31.74
	I _{max} [A]dc	17.08	17.13	17.18	17.22	17.27	17.33
BNPI condition	Pmp [W] /Tolerance	572±3%	578±3%	583±3%	589±3%	594±3%	598±3%
	Voc [V] /Tolerance	37.85±2%	38.07±2%	38.27±2%	38.47±2%	38.71±2%	38.93±2%
	Isc [A]dc /Tolerance	19.77±2%	19.82±2%	19.87±2%	19.94±2%	19.99±2%	20.05±2%
bifaciality coefficient	φP _{max}	67±3%	67±3%	67±3%	67±3%	67±3%	67±3%
	φV _{oc}	99±2%	99±2%	99±2%	99±2%	99±2%	99±2%
	φI _{sc}	69±2%	69±2%	69±2%	69±2%	69±2%	69±2%
	Maximum system voltage [V]	1500	1500	1500	1500	1500	1500

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Maximum Over-Current Protection Rating [A]	35	35	35	35	35	35
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