

## **Product Characteristics**



### Lightweight and ultra-thin design

The component weight is as light as 4.6kg in weight and as thin as 3mm, meeting the requirements of various low load projects.



## Ultra high flexibility

With ultra-thin silicon chip and advanced organic polymer materials, the component can perfectly fit various curved roofs.



### Efficient and reliable

It is improving the battery conversion efficiency. The power generation performance is excellent under low light conditions.



#### Customization

can be customized to meet the needs of different application scenarios.



## Easy installation

Due to convenience and quickness, the costs of installation and transport are greatly reduced.



## Plumbum free environmental protection-

Base on the concept of green environmental protection, the production process and materials achieve plumbum free

## **Long lasting quality**

- · Pass various long-term reliability tests
- El test is carried out before and after lamination to ensure the reliability of components
- Adopt strict international standard management system ISO9001, ISO14001 and ISO 45001
- Fully automatic production line and leading photovoltaic technology

#### **Electrical performance parameters (STC)**

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Parameter name	unit	TN-390	TN-395	TN-400	TN-405	TN-410
Maximum power (Pm	n) W	390W	395W	400W	405W	410W
Power tolerance	W	0~+5w	0~+5w	0~+5w	0~+5w	0~+5w
Optimum operating voltage	(Vm) V	77.22	77.616	78.012	78.408	86.196
Optimum working current	(lm) A	5.155	5.23	5.255	5.305	4.892
Open-circuit voltage(V	oc) V	89.892	90.288	90.684	91.08	98.208
Short Circuit Current(	lsc) A	5.52	5.545	5.545	5.57	5.179

Standard testing condition(STC): Irradiance 1000W/m², Temperature 25°C, AM 1.5

## Mechanical properties

Cell array	22(166/2)*6
Component dimensions	1940*1040*3 mm
Size of 46 pieces for outer case	2120*1680*1260mm
Anterior membrane	Lightweight high light transmittance polymer material
Wind/snow pressure	2400Pa/5400Pa

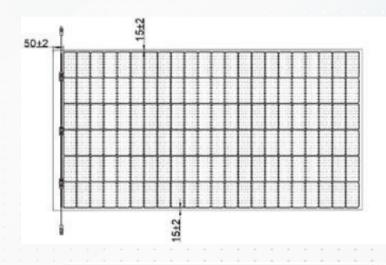
Back board colour	White/black	
Terminal block	Protection grade IP67	
Cable	4mm²	
Diode	3	
Weight	6.40KG	

## Temperature coefficient

Battery nominal operating temperature	25±2℃
Current temperature coefficient (lsc)	+0.05%/°C
Voltage temperature coefficient	-0.32%/℃
Power factor (Pm)	-0.40%/°C

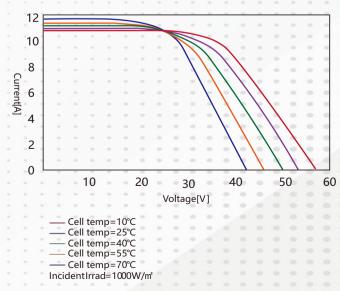
## Workingconditions

The largest system voltage	DC1500V(IEC)
The largest fuse rated current	20A
Operating temperature range	-40~+120°C
Connector	MC Compatible





# Current and voltage curves at different temperatures



# Current and voltage curves/power and voltage curves under different irradiance

