



# JC(580-600)-144M

Bifacial Module With Single Glass

N-type



**15** 15-year Warranty for Materials and Processing

**30** 30-year Warranty for Extra Linear Power Output

## SMBB Technology

Better light trapping and current collection to improve module power output and reliability.

## Mechanical Load Enhanced

Certified to withstand:  
5400 Pa front side max static test load  
2400 Pa rear side max static test load

## Dual-Sided Power Generation

Selected materials have passed rigorous PID tests. It is suitable for coastal desert lake and other terrains

## N-Type Technology

N-Type modules with Tunnel Oxide Passivating contacts (TOPcon) technology Offer lower LID/LeTID degradation and better low light performance.

## Anti-PID Guarantee

Minimizes the chance of degradation Caused by PID phenomena through Optimization of cell production technology and material control.

## Comprehensive product certification

IEC61215:2021/IEC61730:2016  
ISO9001:2015/Quality management system  
ISO145001:2018/Standards for environmental management system  
OHSAS18001:2007 /International standards for occupational health&safety

## Module power guarantee



## PRODUCT CERTIFICATES\*



JC(580-600)-144M

23.22%

MAX MODULE EFFICIENCY

0~3%

POWER TOLERANCE

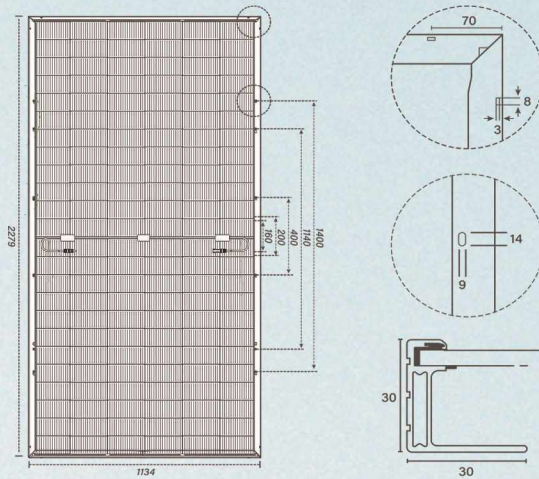
<1%

FIRST YEAR  
POWER DEGRADATION

0.40%

YEAR 2-30  
POWER DEGRADATION

### Engineering drawings(mm)



### Mechanical Parameters

Cell Type	N-type Mono-crystalline
No. Of Cells	144(6*24)
Junction Box	IP68, 3 diodes
Frame	Anodized frame
Weight	26.5kg±3%
Dimension	2279*1134*30mm
Cable	4mm2,350mm in length, can be customized
Glass	3.2mm High Transmission, Antireflection Coating

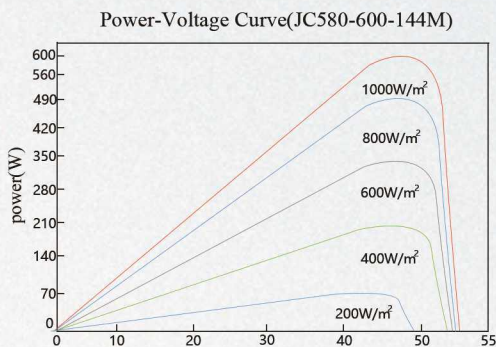
### Operating Parameters:

Max. System Voltage	1500V/ DC
Operation Temperature	-40~+70°C
Max. Snow Load(Front)	5400Pa
Max. Wind Load(Front)	2600Pa
NOCT	45±2°C

### Electrical Characteristics STC:AM1.5 1000W/m<sup>2</sup> 25°C NOCT:AM1.5 800W/m<sup>2</sup> 20°C 1m/s

Module Type	JC(580-600)-144M									
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power-Pmax [Wp]	580	436	585	440	590	444	595	448	600	452
Maximum Power Voltage -Vmp[V]	43.54	39.83	43.73	39.96	43.92	40.09	44.11	40.22	44.30	40.35
Maximum Power Current -Imp[A]	13.32	10.95	13.38	11.02	13.44	11.08	13.50	11.14	13.56	11.21
Open-circuit Voltage -Voc[V]	51.34	48.54	51.53	48.68	51.72	48.82	51.91	48.96	52.10	49.10
Short-circuit Current -Isc[A]	14.19	11.68	14.25	11.74	14.31	11.80	14.37	11.86	14.43	11.92
Power Tolerance	0~+3%									
Module Efficiency STC (%)	22.44		22.64		22.83		23.02		23.22	

### Electrical Performance



### Application Conditions

Operating Temperature	-40 °C ~ +70°C
Maximum System Voltage	1000/1500 VDC (IEC)
Maximum Series Fuse Rating	30A

### Packaging configuration

Pallet Dimentions	2320*1150*1260mm
Packing Detail	36 pcs/pallets 720 pcs/ 40'HQ Container
	36 pcs/pallets 305 pcs/ 20'HQ Container

\*For detailed information, please refer to the Installation Manual.