

REDSOLAR

# M10 MBB Mono Bifacial Module

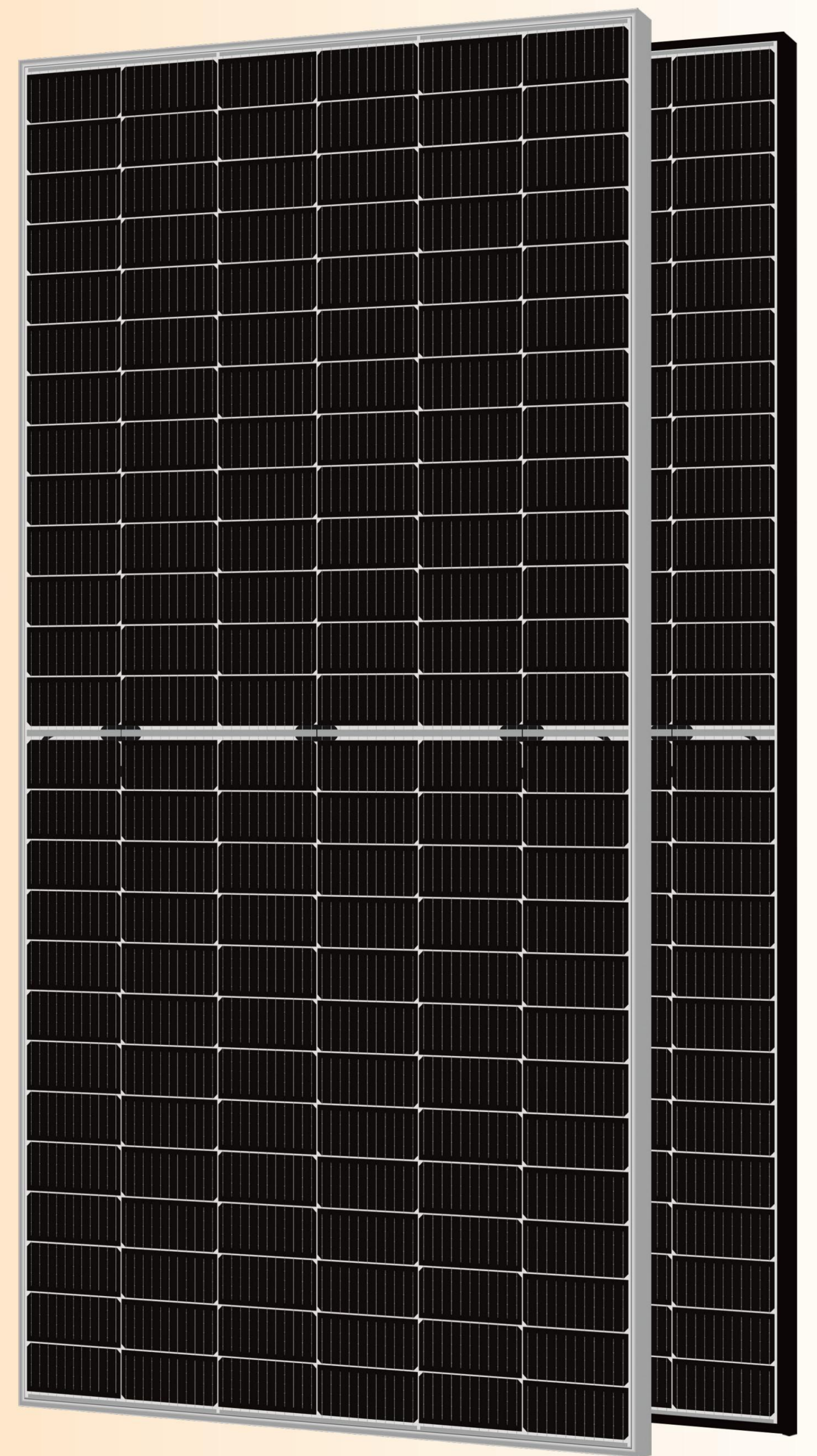
156 Half Cells

Sliver frame or black frame

12 Years Product warranty

30 Years Linear power warranty

Integrated Solar Manufacturing & Technology Since 1964



**570-590W**

Output power

**21.1%**

Maximum efficiency

**0~+5W**

Power tolerance

## Better Performance

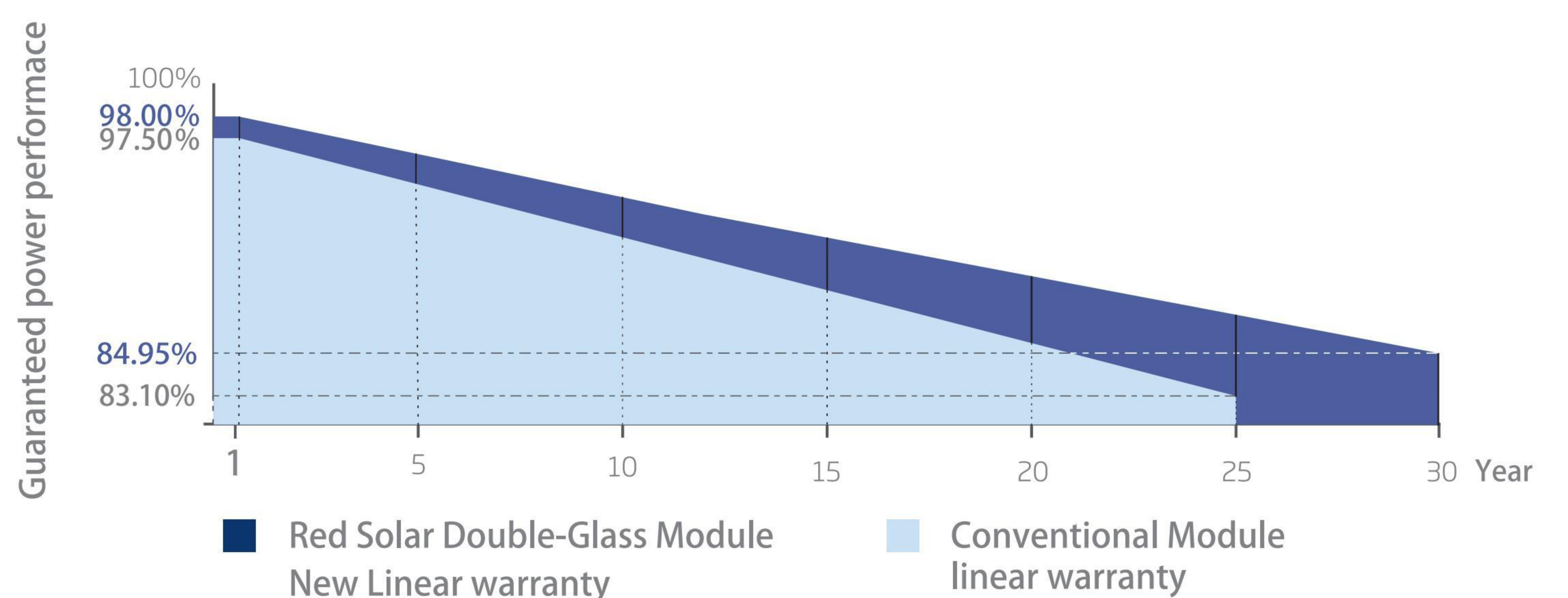
Lower Heat Loss of Internal- resistance

## Better Reliability

Reduce Shading & Risk of Micro Crack

## Design for Harsh Environment

Resistant to Salt, Ammonia, Dust & Sand



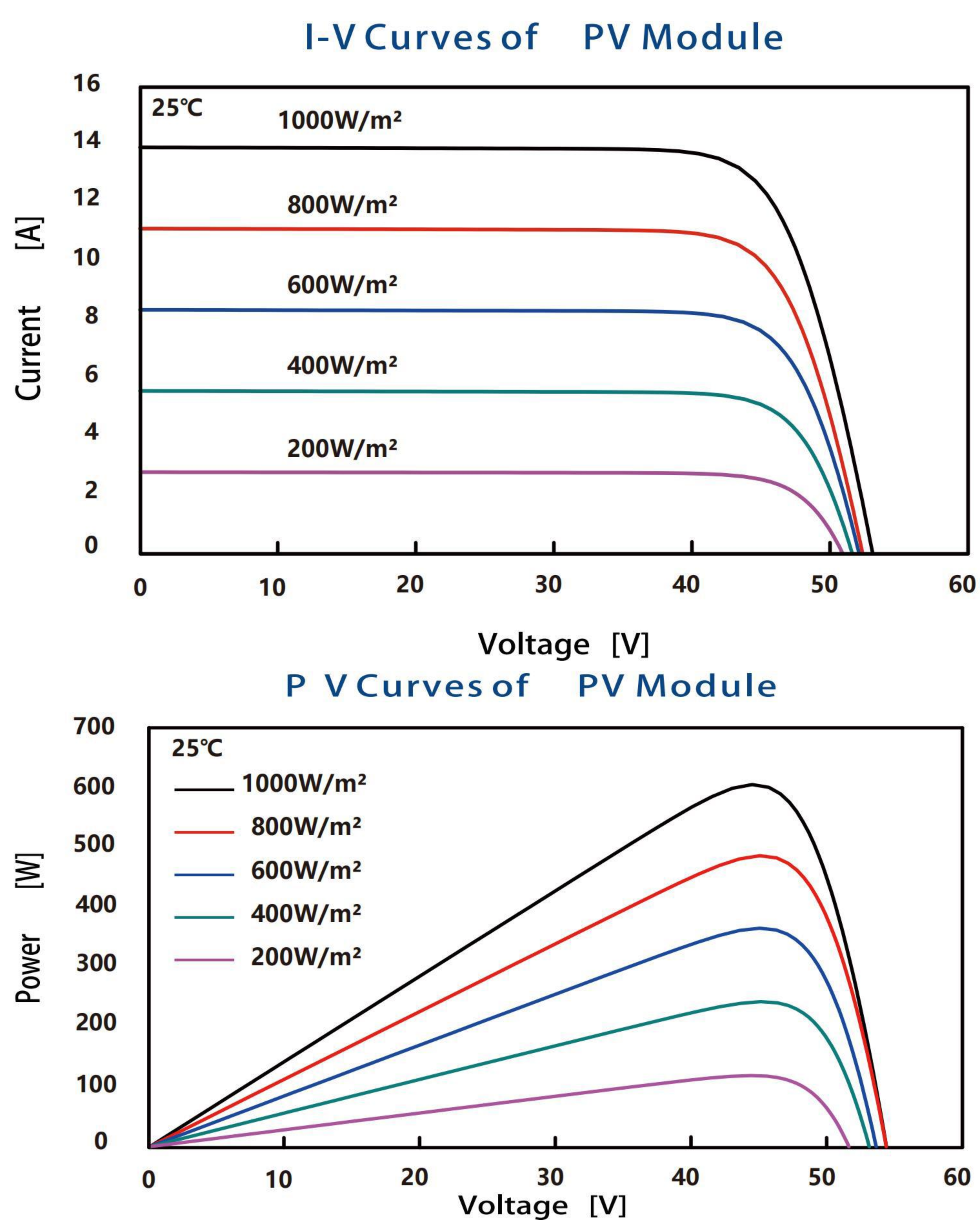
# M10 MBB Monocrystalline Bifacial half-cell Module



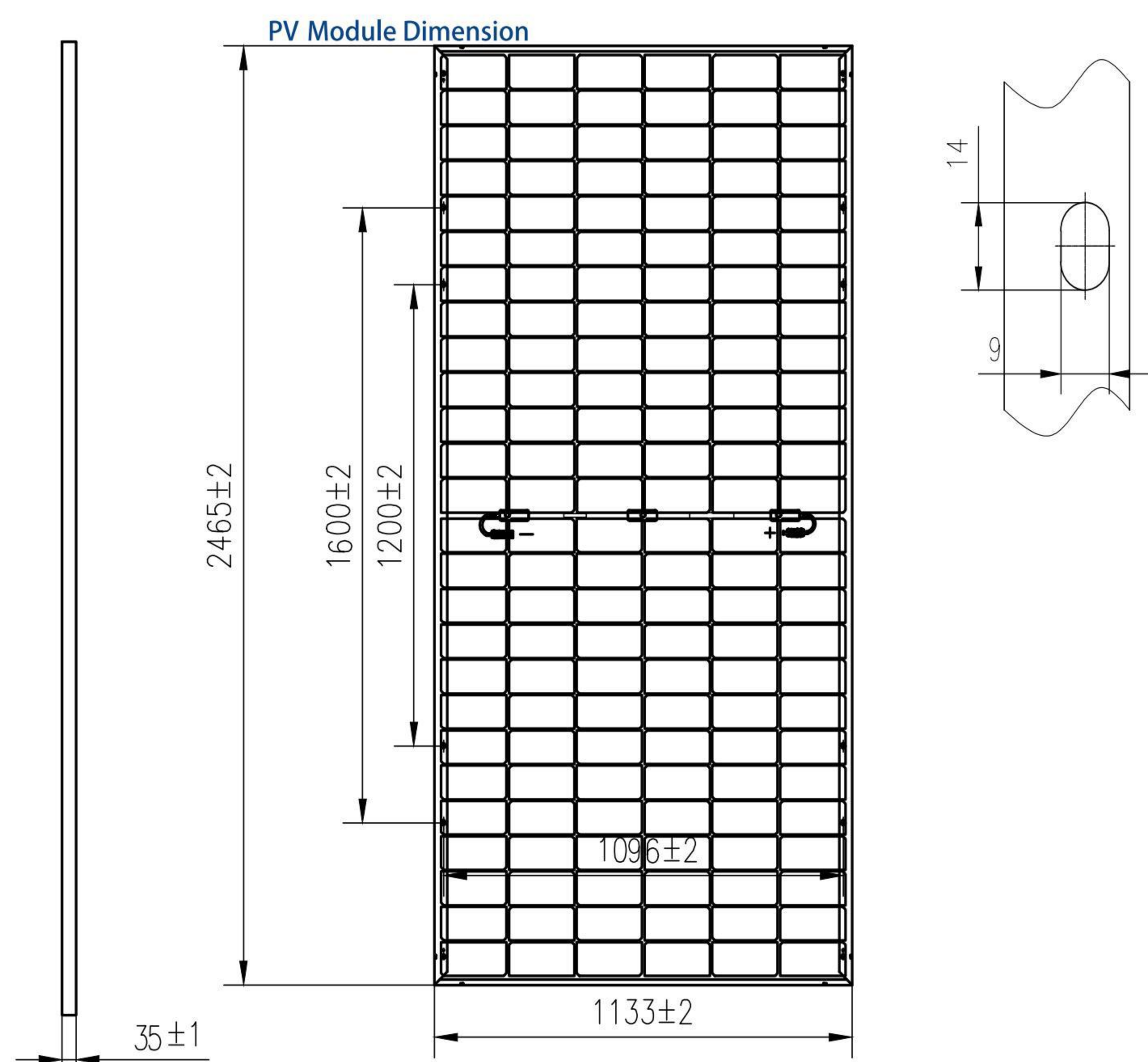
Front Electrical Parameter(STC)					
Model	570M	575M	580M	585M	590M
Maximum power	570	575	580	585	590
Working point voltage	44.46	44.80	44.96	45.12	45.28
Working point current	12.82	12.84	12.90	12.97	13.03
Open circuit voltage	53.14	53.30	53.46	53.63	53.79
Short circuit current	13.66	13.72	13.78	13.85	13.92
PV module efficiency	20.53%	20.6%	20.8%	20.9%	21.1%
Standard test conditions	AM1.5, Irradiance 1000w/m <sup>2</sup> , Cell Temperature 25°C				

RearSide Power gain						
5%	Maximum Power	596Wp	604Wp	609Wp	61Wp	619Wp
	Efficiency STC	21.4%	21.6%	21.8%	22.0%	22.2%
15%	Maximum Power	656Wp	661Wp	667Wp	672Wp	678Wp
	Efficiency STC	23.4%	23.6%	23.9%	24.1%	24.3%
25%	Maximum Power	713Wp	719Wp	725Wp	731Wp	738Wp
	Efficiency STC	25.5%	25.7%	25.9%	26.2%	26.4%

The Electrical performance parameters are neither just referred to one PV panel, nor are a part of the contract; They are only used as reference.



Model of PV Module Power Range  
CETC-xxxM(GDF)/156 | 570-590W



Mechanical Parameters	
Module size	2465*1133*35mm
Number of solar cells	156Cells(2*6*13)
Weight	34.5Kg ±5%
Junction Box	IP68, 3 diodes
Cables	4mm <sup>2</sup> , 300mm, (Customizable)
Front plate glass	Ultra white AR coated semi-toughened glass
Rear plate glass	semi-toughened glass
Static load on the front	5400Pa
Static load on the back	2400Pa

Packaging&Transport	
40'HQ container transport	31 Pcs/box × 16 box =496 Pcs

Temperature Parameter	
NMOT	45±2°C
Pmax	-0.35%/°C
Voc	-0.28%/°C
Isc	+0.048%/°C

Maximum Ratings	
Working temperature	-40~+85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	30A