

# M10 MBB Mono Module

156 Half Cells

Sliver frame or black frame



Founder's in Solar PV since 1993, in manufacturing and systems integration.

**575-595W**

Output power

**21.3%**

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

Our PEM Reputed partner's  
From CHINA, Taiwan, India,  
Turkey, Vietnam & Thailand.  
MBC Solar Stands for  
Quality & Reliability.



### Suitable for



RESIDENTIAL



UTILITY



COMMERCIAL



OFF-GRID

### Certification



**MCS**



IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 61726 (Ammonia)

IEC 62782 (DMLT) | IEC 61853-1 & 2 (Panfile & IAM) | IEC 60068 (Sand & Dust)

IEC 61215 | INMETRO, CE | IEC 61730 | UL 61730

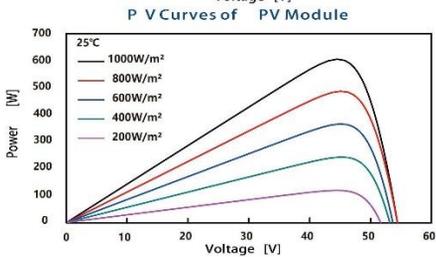
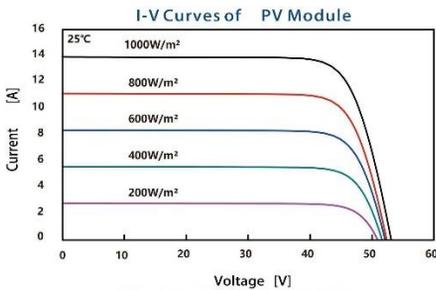
**M10 MBB Monocrystalline Half-cell Module**

Electrical Parameter(STC)					
Model	575M	580M	585M	590M	595M
Maximum power	575	580	585	590	595
Working point voltage	44.80	44.96	45.12	45.28	45.45
Working point current	12.84	12.90	12.97	13.03	13.09
Open circuit voltage	53.30	53.46	53.63	53.79	53.95
Short circuit current	13.72	13.78	13.85	13.92	13.98
PV module efficiency	20.6%	20.8%	20.9%	21.1%	21.3%
Standard test conditions	AM1.5, Irradiance 1000w/m <sup>2</sup> , Cell Temperature 25°C				

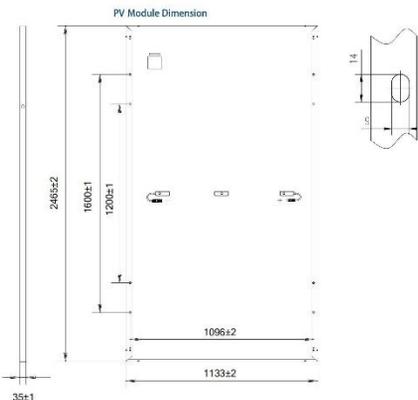
Electrical Parameter(NMOT)					
Model	575M	580M	585M	590M	595M
Maximum power	425	428	432	436	439
Working point voltage	40.47	40.49	40.67	40.86	40.95
Working point current	10.5	10.57	10.62	10.67	10.72
Open circuit voltage	49.8	50.00	50.10	50.20	50.40
Short circuit current	11.07	11.13	11.19	11.24	11.29

NMOT The irradiance is 800W/m<sup>2</sup>, the ambient temperature is 20 degrees, and the wind speed is 1m/s

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 575-595W



**Mechanical Parameters**

Module size	2465*1133*35mm
Number of solar cells	156(2*6*13)
Weight	30Kg ±5%
Junction Box	IP68, 3 diodes
Cables	4mm <sup>2</sup> , 300mm, (Customizable)
Front plate glass	Ultra white AR coated toughened glass
Static load on the front	5400Pa
Static load on the back	2400Pa

**Packaging & Transport**

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

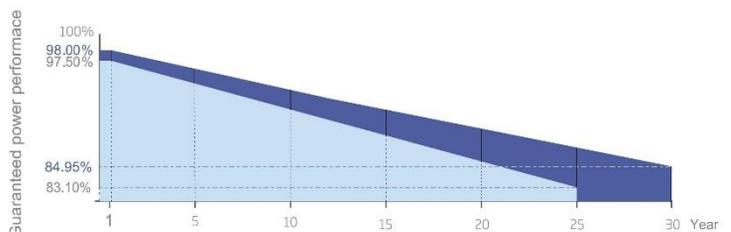
**Temperature Parameter**

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	25A

**MBC Solar Panels Deliver Performance Guaranteed through our OEM Partners.**



**Energize Society  
By Sustainable  
Energy Solutions**