



# EMS-72M

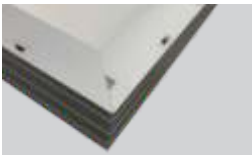
**POWER RANGE**  
**380W~400W**

**CELL SIZE**  
**158.75\*158.75mm**



### JUNCTION BOX

Waterproof protection grade:IP67/IP68  
Safety Level: Class II  
Maximum System Voltage: 1500V/1000V  
outstanding waterproof level ·  
Effectively resist harsh environments



### Frame

Strong machinical load  
resistance up to 5400Pa  
Anodic oxidation layer resistant to  
chemical corrosion available  
in silver and black



5BB



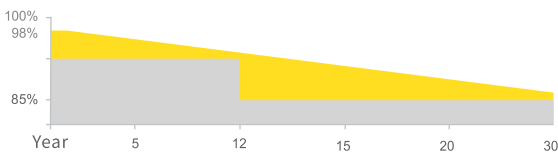
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## QUALIFICATIONS AND CERTIFICATES



· IEC61215 / · IEC61730

## WARRANTY



**12 YEARS** Guarantee on product material and workmanship

**30 YEARS** Linear Power output warranty



### MBB Cells

Absorbing current and reducing mismatched loss.



### Outstanding low light performance

Available for outputting more power under low light conditions such as haze, cloudy or rainy days.



### Anti-reflective glass

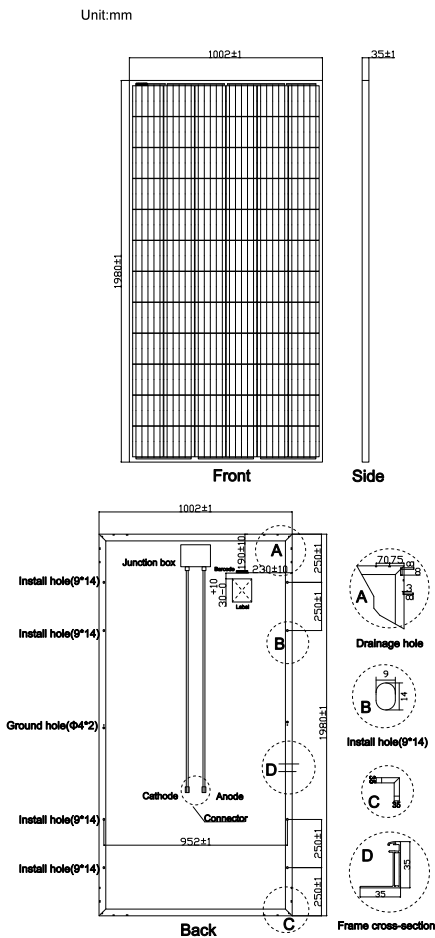
Increasing light absorption and reducing the loss of power.



### Excellent performance of PID resistance

The performance of PID resistance (Potential Induced Degradation) passed the standard of TUV Nord.

## PV DRAWINGS



## ELECTRICAL DATA (STC)

Model Type	EMS-380W36M	EMS-385W36M	EMS-390W36M	EMS-395W36M	EMS-400W36M
Peak Power(Pmax)	380.00	385.00	390.00	395.00	400.00
Maximum Power Voltage(Vmp)	39.02	39.12	39.22	39.32	39.42
Maximum Power Current(Imp)	9.74	9.85	9.95	10.05	10.15
Open Circuit Voltage(Voc)	47.80±3%	47.92±3%	48.04±3%	48.17±3%	48.29±3%
Short Circuit Current(Isc)	10.27±3%	10.37±3%	10.48±3%	10.58±3%	10.69±3%
Module Efficiency( % )	19.15	19.40	19.65%	19.90	20.16

\* STC: irradiance 1000 W/m<sup>2</sup>, AM 1.5, and cell temperature of 25°C

## ELECTRICAL DATA (NOCT)

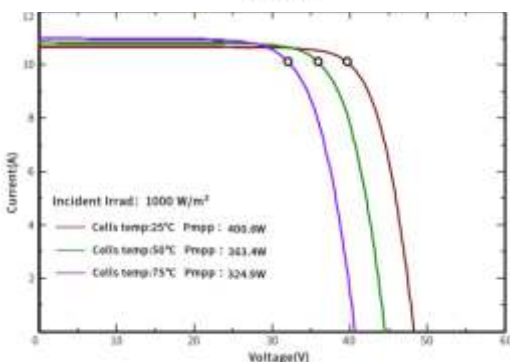
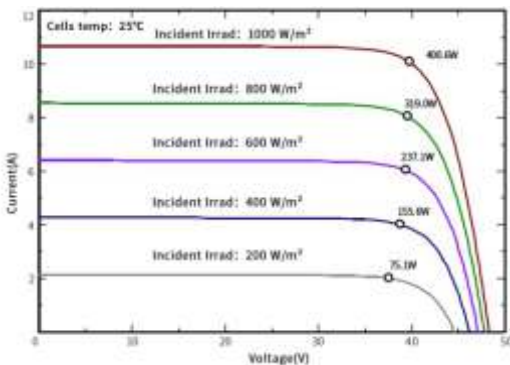
Model Type	EMS-380W36M	EMS-385W36M	EMS-390W36M	EMS-395W36M	EMS-400W36M
Peak Power(Pmax)	282.00	286.00	290.00	293.00	297.00
Maximum Power Voltage(Vmp)	36.49	36.58	36.67	36.76	36.86
Maximum Power Current(Imp)	7.73	7.82	7.91	7.98	8.06
Open Circuit Voltage(Voc)	44.96±3%	45.07±3%	45.18±3%	45.29±3%	45.41±3%
Short Circuit Current(Isc)	8.21±3%	8.29±3%	8.38±3%	8.46±3%	8.54±3%

\* NOCT: irradiance 800 W/m<sup>2</sup>, AM 1.5, ambient temperature 20°C, wind speed 1 m/s

## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500/1000 V
Maximum Series Fuse Rating (A)	20 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.400 %/°C
Voc Temperature Coefficients (V/°C)	-0.290 %/°C
Isc Temperature Coefficients (A/°C)	+0.048 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

## IV CURVE (400W)



## MECHANICAL CHARACTERISRTICS

Cell Type	158.75*158.75 Mono
No. of Cells	72 (6*12)
Dimensions	1980*1002*35mm
Weight	22.30kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm <sup>2</sup> cable 35cm (Inlcuding MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

## PACKING WAY

20FT container	10 Packages/310pcs
40HQ container	22 Packages/748pcs

