



EMS-144MH

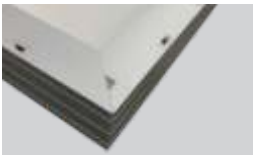
POWER RANGE
400W~410W

CELL SIZE
158.75*79.375mm



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



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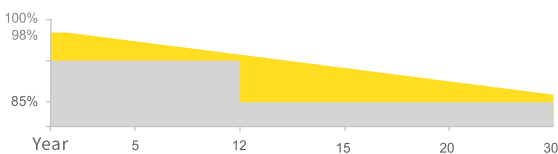
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QUALIFICATIONS AND CERTIFICATES



· IEC61215 / · IEC61730

WARRANTY



12 YEARS Guarantee on product material and workmanship

30 YEARS Linear Power output warranty



Half-cut Technology

New circuit design, lower internal current and lower internal resistance loss



Significantly avoiding heat spot

The unique circuit design to reduce the temperature of heat spot significantly, so that to reduce the power loss and then increase the output of modules.



Lower cost

Increasing power generation can reduce the cost per kilowatt-hour

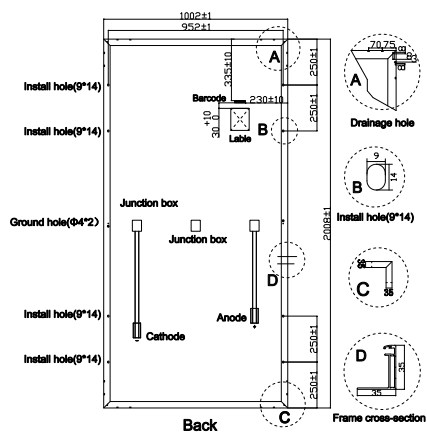
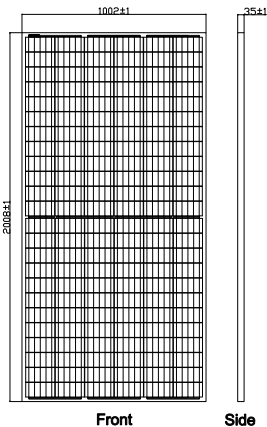


Excellent performance of PID resistance

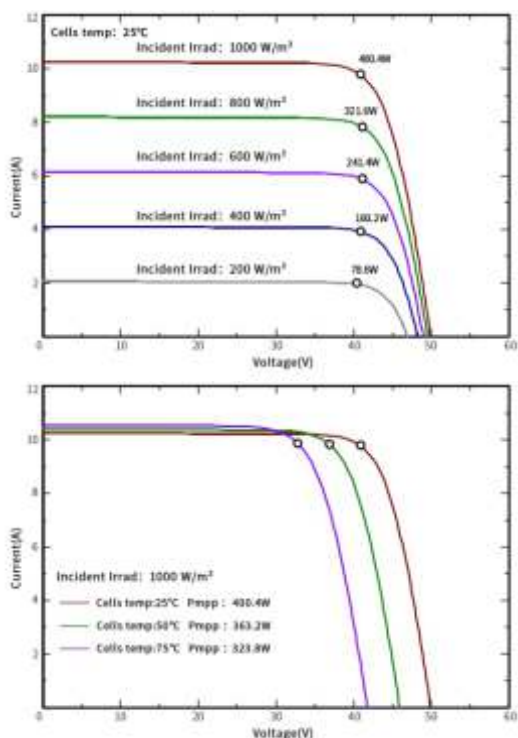
The performance of PID resistance (Potential Induced Degradation) passed the standard of TUV Nord.

PV DRAWINGS

Unit:mm



IV CURVE (400W)



ELECTRICAL DATA (STC)

Model Type	EMS-400W36MH	EMS-405W36MH	EMS-410W36MH
Peak Power(Pmax)	400.00	405.00	410.00
Maximum Power Voltage(Vmp)	40.50	40.70	40.90
Maximum Power Current(Imp)	9.88	9.96	10.03
Open Circuit Voltage(Voc)	49.20±3%	49.30±3%	49.50±3%
Short Circuit Current(Isc)	10.48±3%	10.56±3%	10.63±3%
Module Efficiency(%)	19.88	20.12	20.37

* STC: irradiance 1000 W/m², AM 1.5, and cell temperature of 25°C

ELECTRICAL DATA (NOCT)

Model Type	EMS-400W36MH	EMS-405W36MH	EMS-410W36MH
Peak Power(Pmax)	298.40	302.20	305.80
Maximum Power Voltage(Vmp)	37.60	37.70	37.90
Maximum Power Current(Imp)	7.94	8.01	8.07
Open Circuit Voltage(Voc)	45.80±3%	45.90±3%	46.10±3%
Short Circuit Current(Isc)	8.46±3%	8.52±3%	8.58±3%

* NOCT: irradiance 800 W/m², AM 1.5, ambient temperature 20°C, wind speed 1 m/s

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 /1000V
Maximum Series Fuse Rating (A)	20 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.360 %/°C
Voc Temperature Coefficients (V/°C)	-0.260 %/°C
Isc Temperature Coefficients (A/°C)	+0.043 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

MECHANICAL CHARACTERISRTICS

Cell Type	158.75*79.375 Mono
No. of Cells	144 (12*12)
Dimensions	2008*1002*35mm
Weight	22.50kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

PACKING WAY

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