



# EMS-144MHD

## POWER RANGE

400W~410W

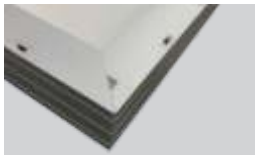
## CELL SIZE

158.75\*79.375mm



### JUNCTION BOX

Waterproof protection grade: IP67/IP68  
Safety Level: Class II  
Maximum System Voltage: 1500V  
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



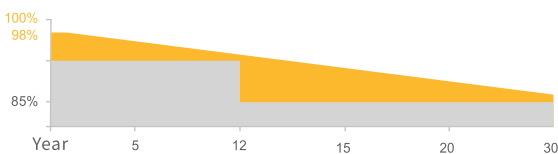
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## QUALIFICATIONS AND CERTIFICATES



· IEC61215 / · IEC61730

## WARRANTY



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

**30 YEARS** Linear Power output warranty



### Higher power

Double-sided power generation can significantly improve the equivalent power generation of solar panels.  
Higher power of solar panels can effectively reduce system BOS cost.



### Higher reliability

Suitable for areas with higher temperature and higher humidity, resistant to salt spray ammonia gas with firing rating in A.  
Anti-PID performance improvement through battery process optimization and material control.



### Higher generated energy

Excellent IAM and low light performance.  
More power generation by lower temperature coefficient and lower operating temperature.



### Easy installation

The conventional frame design makes the double-glass solar panels suitable for various mounting modes.  
Easy to hold, transport and install.



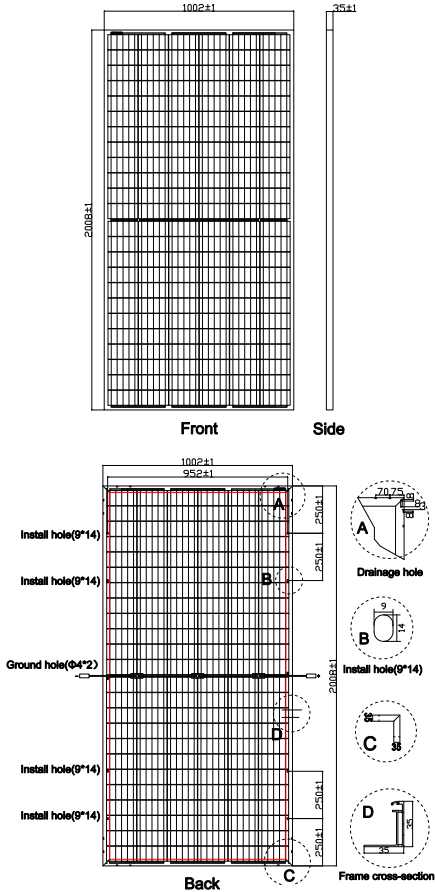
[www.eaplworld.com](http://www.eaplworld.com)

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## PV DRAWINGS

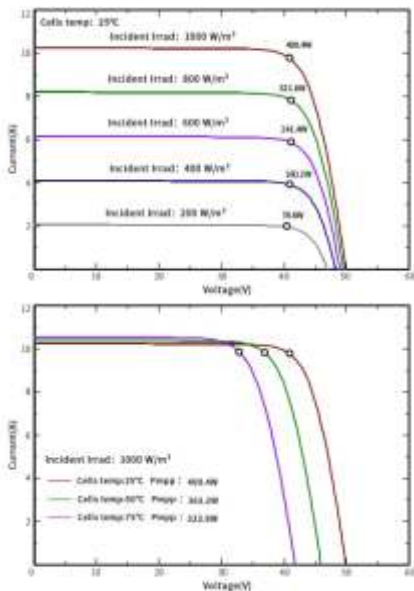
Unit:mm



## PACKING WAY

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

## IV CURVE (400W)



## ELECTRICAL DATA (STC)

Model Type	EAG400-36V-MHD	EAG405-36V-MHD	EAG410-36V-MHD
Peak Power(Pmax)	400.00	405.00	410.00
Maximum Power Voltage(Vmp)	40.40	40.60	40.80
Maximum Power Current(Imp)	9.90	9.98	10.05
Open Circuit Voltage(Voc)	49.50±3%	49.60±3%	49.80±3%
Short Circuit Current(Isc)	10.47±3%	10.55±3%	10.62±3%
Module Efficiency( % )	19.88	20.12	20.37

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

## ELECTRICAL DATA (NOCT)

Model Type	EAG400-36V-MHD	EAG405-36V-MHD	EAG410-36V-MHD
Peak Power(Pmax)	298.40	302.20	305.80
Maximum Power Voltage(Vmp)	37.50	37.60	37.80
Maximum Power Current(Imp)	7.95	8.02	8.08
Open Circuit Voltage(Voc)	46.00±3%	46.10±3%	46.30±3%
Short Circuit Current(Isc)	8.44±3%	8.50±3%	8.56±3%

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

## PARAMETER OF DOUBLE-SIDED POWER GENERATION (410W)

Pmax gain	Pmax/W	Vmpp/V	Imp/A	Voc/V	Isc/A
5%	431.00	40.80	10.57	49.80±3%	11.17±3%
15%	472.00	40.90	11.55	49.90±3%	12.21±3%
25%	513.00	40.90	12.55	49.90±3%	13.26±3%

## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.360 %/°C
Voc Temperature Coefficients (V/°C)	-0.274 %/°C
Isc Temperature Coefficients (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

## MECHANICAL CHARACTERISTICS

Cell Type	158.75*79.375 Mono
No. of Cells	144 (12*12)
Dimensions	2008*1002*35mm
Weight	25.30kg
Front glass	2.0mm coated high-transparent tempered glass
Back glass	2.0mm high-transparent glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm <sup>2</sup> cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa