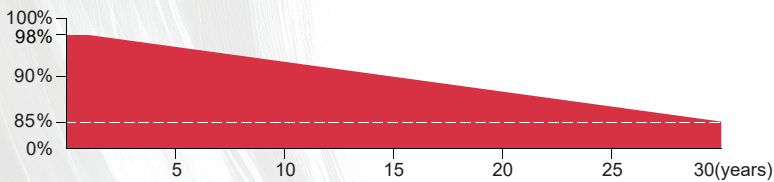


## 410W MBB Bifacial Double Glass Mono PERC Half-cell Module M10-108GA 390~410W



More Energy's linear performance warranty

**12** Years  
Material & Craft  
Quality  
assurance

**30** Years  
Power  
guarantee



- ▲ Higher output power
- ▲ Module efficiency up to 21.0%
- ▲ Lower temperature coefficient
- ▲ Up to 30% additional power gain from back side depending on albedo



- ▲ ISO9001:2015 Quality Management system
- ▲ ISO14001:2015 Environmental Management System
- ▲ ISO45001:2018 Occupational Health and Safety Management System



- ▲ Lower LCOE (Levelized Cost Of Energy)
- ▲ High Power output lead to lower BOS cost



Excellent Potential Induced Degradation Resistance



- ▲ Salt Mist Corrosion Protect
- ▲ Ammonia Resistance



Excellent Wind Load 2400Pa & Snow Load 5400Pa Under Certain Installation Method

Hotline&WhatsApp: + 49 15 225 20 30 30

Web: [www.more-energy.net](http://www.more-energy.net) E-Mail: [info@more-energy.net](mailto:info@more-energy.net)

Add: Fürtherstr. 38, 90429 Nürnberg, Germany



# ME390~410M10-108GA

## Electrical Characteristics(STC\*)

|                              |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|
| Power Output(Wp)             | 390   | 395   | 400   | 405   | 410   |
| Max Power Tolerance(W)       | 0-5   | 0-5   | 0-5   | 0-5   | 0-5   |
| Module Efficiency(%)         | 20.0  | 20.2  | 20.5  | 20.7  | 21.0  |
| Voltage Mpp-Vmpp(V)          | 30.59 | 30.76 | 30.98 | 31.23 | 31.44 |
| Current Mpp-Impp(A)          | 12.75 | 12.84 | 12.91 | 12.97 | 13.04 |
| Voltage Open Circuit-Voc(V)  | 36.67 | 36.91 | 37.10 | 37.33 | 37.58 |
| Short Circuit Current-Isc(A) | 13.63 | 13.71 | 13.80 | 13.87 | 13.94 |

\*STC:Irradiance 1000 W/m<sup>2</sup>,Environment Temperature 25°C,Air Mass AM1.5

## Electrical Characteristics With 10% Rear Side Power Gain

|                              |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|
| Power Output(Wp)             | 429   | 435   | 440   | 446   | 451   |
| Voltage Mpp-Vmpp(V)          | 30.59 | 30.76 | 30.98 | 31.23 | 31.44 |
| Current Mpp-Impp(A)          | 14.03 | 14.12 | 14.20 | 14.27 | 14.34 |
| Voltage Open Circuit-Voc(V)  | 36.67 | 36.91 | 37.10 | 37.33 | 37.58 |
| Short Circuit Current-Isc(A) | 14.99 | 15.08 | 15.18 | 15.26 | 15.33 |

\*Rear side power gain:The additional gain from the rear side compared to the power of the front side at the standard test condition.  
It depends on mounting (structure,height,tilt angle etc.)and albedo of the ground

## Electrical Characteristics(NMOT\*)

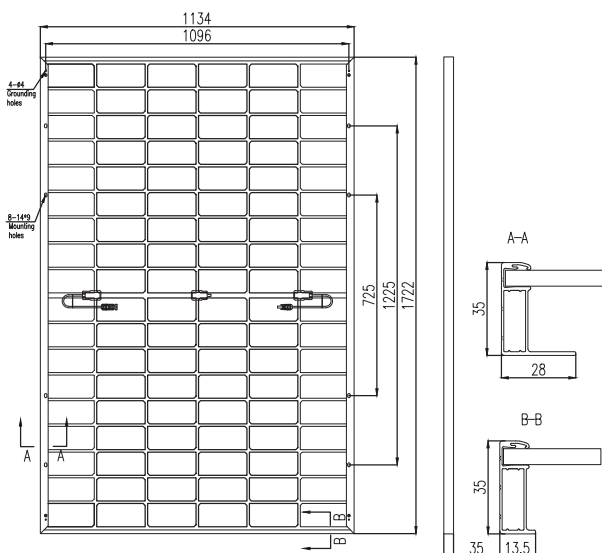
|                              |        |        |        |        |        |
|------------------------------|--------|--------|--------|--------|--------|
| Power Output(Wp)             | 299.61 | 303.45 | 307.29 | 311.13 | 314.98 |
| Voltage Mpp-Vmpp(V)          | 27.88  | 28.04  | 28.24  | 28.46  | 28.66  |
| Current Mpp-Impp(A)          | 10.75  | 10.82  | 10.88  | 10.93  | 10.99  |
| Voltage Open Circuit-Voc(V)  | 33.86  | 34.08  | 34.25  | 34.47  | 34.70  |
| Short Circuit Current-Isc(A) | 11.59  | 11.66  | 11.73  | 11.79  | 11.85  |

\*NMOT:Irradiance 800 W/m<sup>2</sup>,Environment Temperature 20°C,Air Mass AM1.5

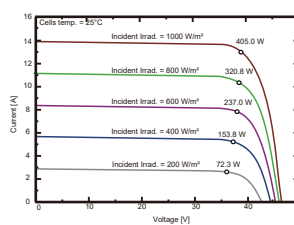
## Mechanical Data

|                     |  |
|---------------------|--|
| Dimension Of Module | 1722*1134*35mm                               |
| Weight(kg)          | 25   |
| Front/Back Glass    | 2.0mm heat strengthened glass                |
| Cables              | 4mm <sup>2</sup> /300mm or Customized Length |
| Junction Box        | IP68,3 Bypass-Diode                          |
| Connector           | MC4 compatible                               |

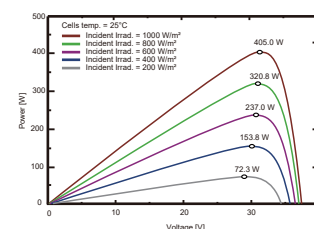
## Module Back View



## I-V Curves(405W)



## P-V Curves(405W)



## Mechanical Data

|                  |               |
|------------------|---------------|
| Loading Capacity | 806 pcs/40'HQ |
|------------------|---------------|

## Working Conditions

|                         |                         |
|-------------------------|-------------------------|
| Max System Voltage(VDC) | 1500V                   |
| Max Series Fuse Rating  | 30A                     |
| Maximum Load Capacity   | Snow 5400Pa/Wind 2400Pa |
| Operating Temperature   | -40 C ~+85 C            |
| Safety Class            | II                      |
| Power Bifaciality       | 70±5%                   |

## Working Conditions

|                                       |        |
|---------------------------------------|--------|
| Temperature Coefficients of Isc(%/C)  | 0.026  |
| Temperature Coefficients of Voc(%/C)  | -0.272 |
| Temperature Coefficients of Pmpp(%/C) | -0.353 |
| NMOT                                  | 45±2 C |