# N-Type

MORE ENERGY

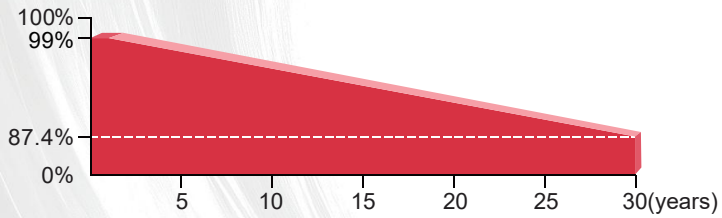
More Energy, More Power

# 10000Pa 440W

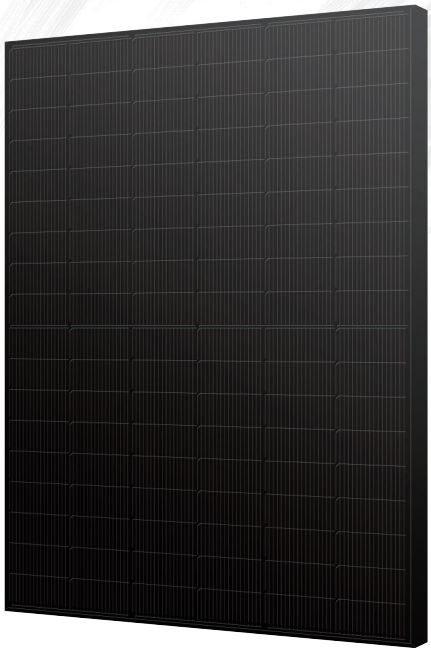
## Bifacial Double Glass

### Maximum Snow Load Capacity

## M10B-108GANT 430~445W




More Energy's linear performance warranty



15 Years Product Warranty on Materials and Workmanship

30 Years Linear Performance Warranty

0.40% Subsequent Annual Degradation

- ▲ Higher output power
- ▲ Module efficiency up to 22.28%
- ▲ 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

PID FREE

Excellent Potential Induced Degradation Resistance

- ▲ Salt Mist Corrosion Protect
- ▲ Ammonia Resistance

Excellent Snow Load Front 10000Pa/Back 5400Pa Under Certain Installation Method

Web: www.more-energy.net
Add: Fürtherstr. 38, 90429 Nürnberg, Germany

# ME415~445M10B-108GANT

MORE ENERGY
More Energy, More Power

## Electrical Characteristics(STC*)

| | | | | | |
|---|---|---|---|---|---|
| Power Output(Wp) | 420 | 425 | 430 | 435 | 440 |
| Max Power Tolerance(W) | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 |
| Module Efficiency(%) | 21.25 | 21.51 | 21.76 | 22.02 | 22.28 |
| Voltage Mpp-Vmpp(V) | 31.44 | 31.63 | 31.81 | 31.99 | 32.17 |
| Current Mpp-Impp(A) | 13.20 | 13.28 | 13.36 | 13.44 | 13.52 |
| Voltage Open Circuit-Voc(V) | 37.83 | 38.02 | 38.21 | 38.40 | 38.59 |
| Short Circuit Current-Isc(A) | 13.97 | 14.05 | 14.13 | 14.21 | 14.29 |

*STC:Irradiance 1000 W/m²,Environment Temperature 25℃,Air Mass AM1.5

## Electrical Characteristics(NMOT*)

| | | | | | |
|---|---|---|---|---|---|
| Power Output(Wp) | 314 | 318 | 322 | 326 | 329 |
| Voltage Mpp-Vmpp(V) | 29.57 | 29.75 | 29.93 | 30.07 | 30.16 |
| Current Mpp-Impp(A) | 10.62 | 10.69 | 10.76 | 10.84 | 10.91 |
| Voltage Open Circuit-Voc(V) | 35.97 | 36.16 | 36.35 | 36.54 | 36.73 |
| Short Circuit Current-Isc(A) | 11.24 | 11.31 | 11.37 | 11.43 | 11.49 |

*NMOT:Irradiance 800 W/m²,Environment Temperature 20℃,Air Mass AM1.5

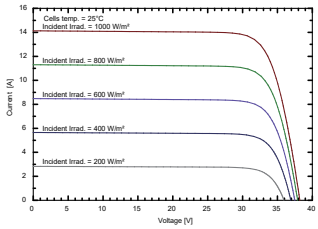
## Electrical Characteristics(NMOT*)

| Power Gain(%) | Power Output(Wp) | Voltage Mpp-Vmpp(V) | Current Mpp-Impp(A) | Voltage Open Circuit-Voc(V) | Short Circuit Current-Isc(A) |
|---|---|---|---|---|---|
| 10 | 468 | 31.81 | 14.70 | 38.21 | 15.54 |
| 15 | 489 | 31.81 | 15.36 | 38.21 | 16.25 |
| 20 | 510 | 31.81 | 16.03 | 38.21 | 16.96 |
| 25 | 531 | 31.81 | 16.70 | 38.21 | 17.66 |
| 30 | 553 | 31.81 | 17.37 | 38.21 | 18.37 |

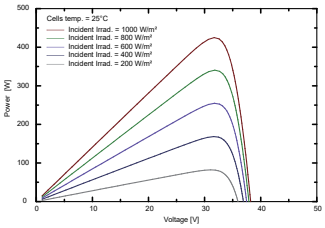
## Mechanical Data

| | |
|---|---|
| Dimension Of Module | 1722*1134*35mm |
| Weight(kg) | 26 |
| Front/Back Glass | 2.0mm heat strengthened glass |
| Cables | 4mm²/1200mm or Customized |
| Junction Box | IP68,3 Bypass-Diode |
| Connector | MC4 compatible |

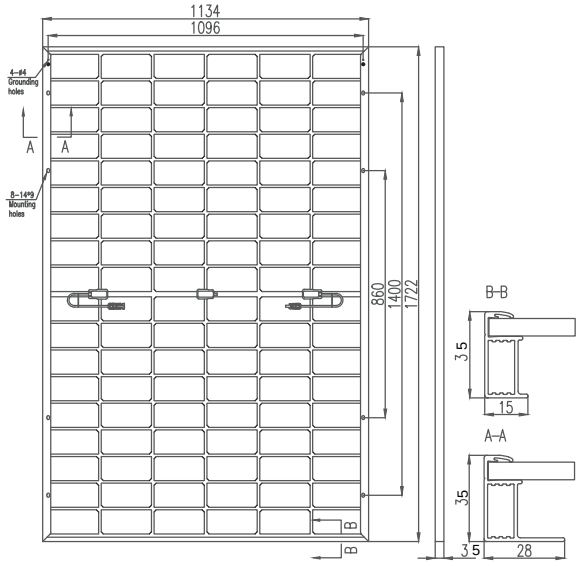
## I-V Curves(425W)




## P-V Curves(425W)




## Module Back View




## Mechanical Data

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

## Working Conditions

| | |
|---|---|
| Max System Voltage(VDC) | 1500V |
| Max Series Fuse Rating | 30A |
| Maximum Load Capacity | Snow 10000Pa/Back 5400Pa |
| Operating Temperature | -40℃~+85℃ |
| Safety Class | Ⅱ |
| Power Bifaciality | 70±5% |

## Working Conditions

| | |
|---|---|
| Temperature Coefficients of Isc(%/℃) | 0.046 |
| Temperature Coefficients of Voc(%/℃) | -0.26 |
| Temperature Coefficients of Pmpp(%/℃) | -0.310 |
| NMOT | 45±2℃ |

Specifications included in this datasheet are subject to change without notice.

*Version No.: ME_2022_01*