

MARS GSD8J66M [650-670W]

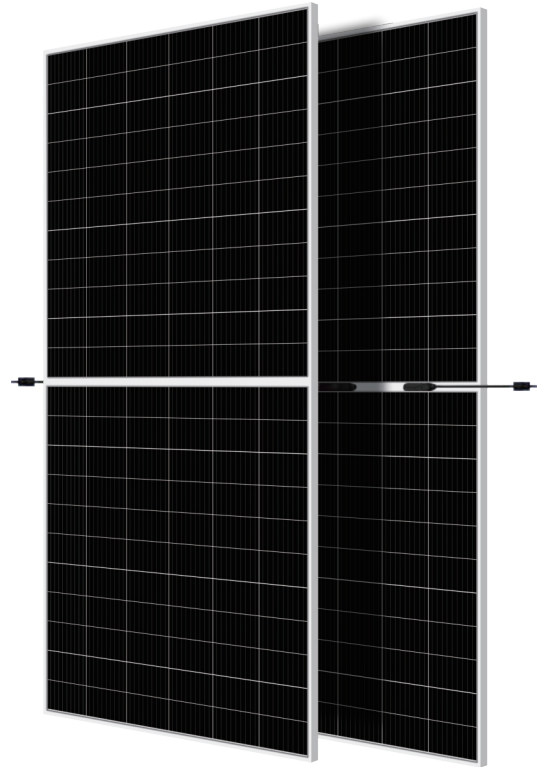
Bifacial Dual Glass 12BB Half-cut Mono Perc

IEC 61215 / IEC 61730 / UL 61730

ISO9001: 2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational Health And Safety Management System



KEY FEATURES



12BB Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss dopped wafer



Significantly Lower The Risk Of Hot Spot

Special circuit design with much lower hot spot temperature



Double Power Output

For higher power output, backside power output can be increases 5-25%



Wider Application

No water-permeability and high wear-resistance, can be widely used in high-humid, windy and dusty area



PID Resistance

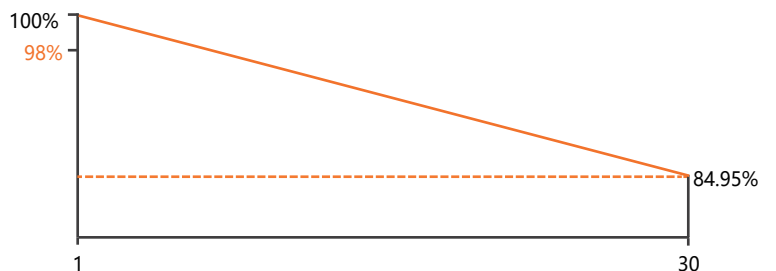
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

Guaranteed Power Performance

25 Years Product Warranty

30 Years Linear Power Warranty

0.45% Annual Degradation Over 30 Years



As different markets have different certification requirements, please consult our G-Star sales group to obtain the corresponding certification for the local market. If any special requirements are needed for the specific installing environment, please feel free to contact G-star technical support department anytime.

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Weight

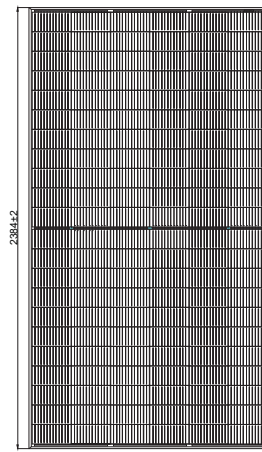
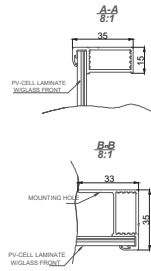
39kg

Dimensions

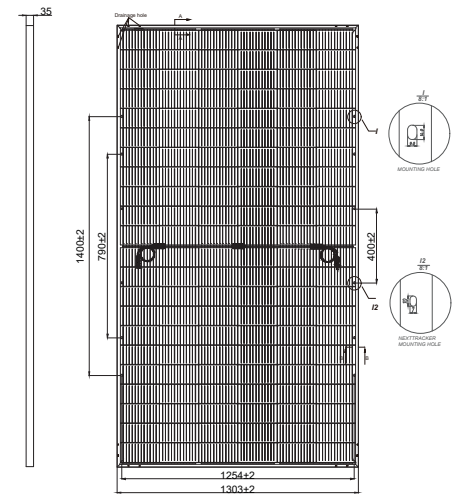
2384*1303*35mm

Packaging

31pcs/pallet,558pcs/ 40'HQ Container
558pcs/ 40'HQ Container(USA)



Front



Side

Back

OPERATING CONDITIONS

| | |
|---|-------------|
| Operating Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500V/DC |
| Maximum Series Fuse Rating | 35A |
| Power Tolerance | 0~3% |
| Temperature Coefficients Of Pmax | -0.35%/°C |
| Temperature Coefficients Of Voc | -0.26%/°C |
| Temperature Coefficients Of Isc | 0.048%/°C |
| Nominal Module Operating Temperature (NMOT) | 43±2°C |
| *Under STC :BACKside Output Ration =Pmax(rear)/Pmax(front) 70%±5% | |

MECHANICAL CHARACTERISTICS

| | |
|-----------------|--|
| Cell Type | Monocrystalline 210*105mm |
| No. Of Cells | 132 pcs in series (6*22) |
| Front Glass | 2.0mm AR Coating Semi-tempered Glass |
| Back Glass | 2.0mm Glazed Semi-tempered Glass |
| Frame | Anodized Aluminium Alloy,silver or black |
| Junction Box | IP68 , 3 Bypass Diodes |
| Output Cables | 300mm in legh or Customized Length |
| Connectors | MC4/MC4-EVO2 |
| Mechanical Load | 5400Pa(Front)/2400Pa(Back) |

ELECTRICAL PARAMETERS AT STC & NMOT

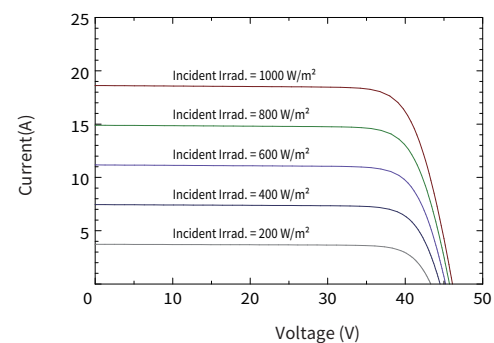
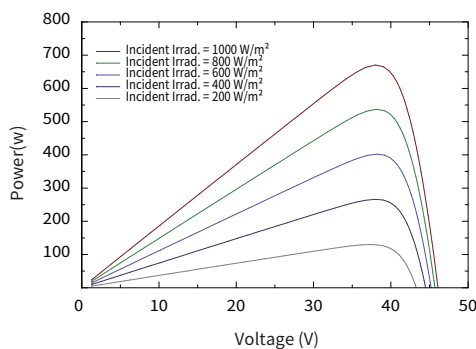
| Module Type | GSD8J66M-650WT | | GSD8J66M-655WT | | GSD8J66M-660WT | | GSD8J66M-665WT | | GSD8J66M-670WT | |
|-----------------------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power(Pmax) | 650Wp | 491Wp | 655Wp | 495Wp | 660Wp | 499Wp | 665Wp | 503Wp | 670Wp | 506Wp |
| Maximum Power Voltage (Vmp) | 37.60V | 35.08V | 37.80V | 35.26V | 38.00V | 35.45V | 38.20V | 35.64V | 38.40V | 35.82V |
| Maximum Power Current (Imp) | 17.29A | 14.02A | 17.33A | 14.05A | 17.37A | 14.09A | 17.41A | 14.12A | 17.45A | 14.15A |
| Open-circuit Voltage (Voc) | 45.40V | 42.77V | 45.60V | 42.96V | 45.80V | 43.14V | 46.00V | 43.33V | 46.20V | 43.52V |
| Short-circuit Current (Isc) | 18.21A | 14.68A | 18.26A | 14.72A | 18.31A | 14.76A | 18.36A | 14.80A | 18.41A | 14.84A |
| Module Efficiency STC (%) | 20.92% | | 21.09% | | 21.25% | | 21.41% | | 21.57% | |

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| Gain | Parameter | GSD8J66M-650WT | GSD8J66M-655WT | GSD8J66M-660WT | GSD8J66M-665WT | GSD8J66M-670WT |
|------|---------------------------|----------------|----------------|----------------|----------------|----------------|
| 5% | Maximum Power(Pmax) | 682Wp | 687Wp | 693Wp | 698Wp | 703Wp |
| | Module Efficiency STC (%) | 21.96% | 22.12% | 22.31% | 22.47% | 22.65% |
| 15% | Maximum Power(Pmax) | 747Wp | 753Wp | 759Wp | 764Wp | 770Wp |
| | Module Efficiency STC (%) | 24.05% | 24.24% | 24.43% | 24.59% | 24.79% |
| 25% | Maximum Power(Pmax) | 812Wp | 818Wp | 825Wp | 831Wp | 837Wp |
| | Module Efficiency STC (%) | 26.14% | 26.33% | 26.56% | 26.75% | 26.94% |

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

IV-CURVE



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*STC: Irradiance 1000W/m²
NMOT: Irradiance 800W/m²



Cell Temperature 25°C
Ambient Temperature 20°C



AM=1.5
AM=1.5



Wind Speed 1m/s
Wind Speed 1m/s

Due to ongoing innovation, R&D enhancement, the specification and key features described in this datasheet may deviate slightly and are not guaranteed. G-Star reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.