



BIPRO

TM9G72M **144-cell**

600 - 620W

Bifacial Dual Glass

16BB Half-cut N-type



SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

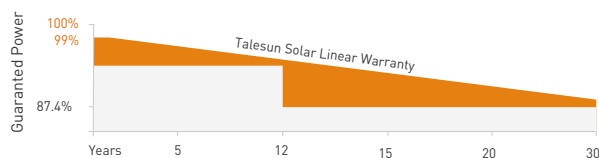


PERFORMANCE WARRANTY

12 Years
Quality Assurance

30 Years
Power Output Guarantee

Linear Performance Warranty



KEY FEATURES



16BB Half-cut Cell Technology

Lower LID/LeTID degradation and better low light performance
Attenuation < 1% (1st year) / ≤ 0.4% (Linear)



Industry Leading High Yield

Bifacial TOPCon cell technology,
Dual-sided power generation gain from back side depending on albedo, significantly reduce LCOE



Excellent Anti-PID Performance

192 hours Anti-PID test



Wider Application

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



IP68 Junction Box

High waterproof level

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* GL-EN-Version 2024.05.24

ELECTRICAL CHARACTERISTICS

| Testing Condition | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 600 | 451 | 605 | 455 | 610 | 459 | 615 | 463 | 620 | 466 |
| Operating Voltage (Vmp/V) | 43.20 | 40.66 | 43.37 | 40.82 | 43.54 | 40.98 | 43.71 | 41.14 | 43.88 | 41.30 |
| Operating Current (Imp/A) | 13.88 | 11.10 | 13.95 | 11.15 | 14.01 | 11.19 | 14.06 | 11.24 | 14.12 | 11.29 |
| Open-Circuit Voltage (Voc/V) | 51.40 | 48.82 | 51.60 | 49.01 | 51.80 | 49.20 | 52.00 | 49.39 | 52.20 | 49.58 |
| Short-Circuit Current (Isc/A) | 14.65 | 11.82 | 14.71 | 11.88 | 14.79 | 11.94 | 14.86 | 11.99 | 14.92 | 12.05 |
| Module Efficiency [%] | 22.20 | | 22.40 | | 22.60 | | 22.80 | | 23.00 | |

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%
 NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

REAR SIDE POWER GAIN(REFERENCE TO 605W FRONT)

| Pmax gain | 5% | 10% | 15% | 20% | 25% |
|-----------|-------|-------|-------|-------|-------|
| Pmax/W | 635 | 666 | 696 | 726 | 756 |
| Vmp/V | 43.36 | 43.36 | 43.36 | 43.36 | 43.36 |
| Imp/A | 14.65 | 15.35 | 16.04 | 16.74 | 17.44 |
| Voc/V | 51.60 | 51.60 | 51.60 | 51.60 | 51.60 |
| Isc/A | 15.45 | 16.18 | 16.92 | 17.65 | 18.39 |

MECHANICAL CHARACTERISTICS

| | |
|-------------------|--|
| Cell Type | N-type Mono-Crystallin (16Busbar) |
| No. of Cells | 144pcs in series (6*24) |
| Module Dimensions | 2382*1134*30mm (93.78*44.65*1.18inches) |
| Weight | 33.8kg (74.52lbs.) |
| Front Glass | 2.0mm AR Coating Semi-tempered Glass |
| Back Glass | 2.0mm Glazed Semi-tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68, 3 Bypass Diodes |
| Output Cables | 4mm ² (IEC), 12AWG(UL) 350mm(+), 250mm(-) or Customized Length |
| Connectors | T01/LJQ-3-CSY/MC4/MC4-EV02 |

APPLICATION CONDITIONS

| | |
|---------------------------|-------------------------------------|
| Maximun System Voltage | 1500V/DC |
| Operating Temperature | -40°C~+85°C |
| Maximun Series Fuse | 30A |
| Safety Protection Class | Class II |
| Mechanical Load | Front side 5400Pa, Back side 2400Pa |
| Refer. Bifaciality Factor | 80%±5% |

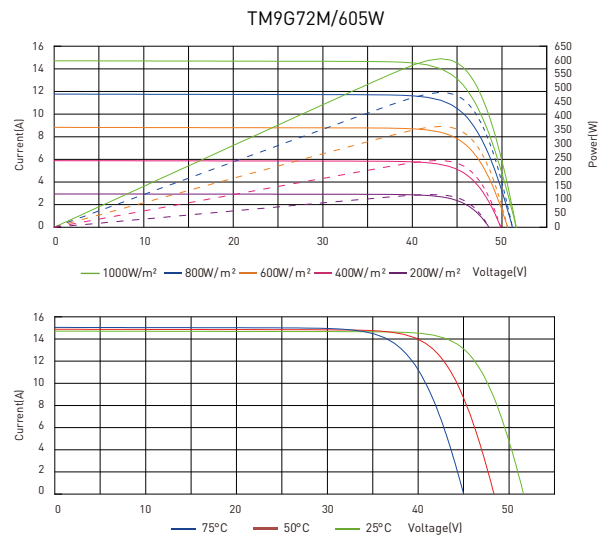
TEMPERATURE CHARACTERISTICS

| | |
|--|------------|
| Temperature Coefficient of Pmax | -0.29%/°C |
| Temperature Coefficient of Voc | -0.24%/°C |
| Temperature Coefficient of Isc | +0.043%/°C |
| Nominal Module Operating Temperature(NMOT) | 43±2°C |

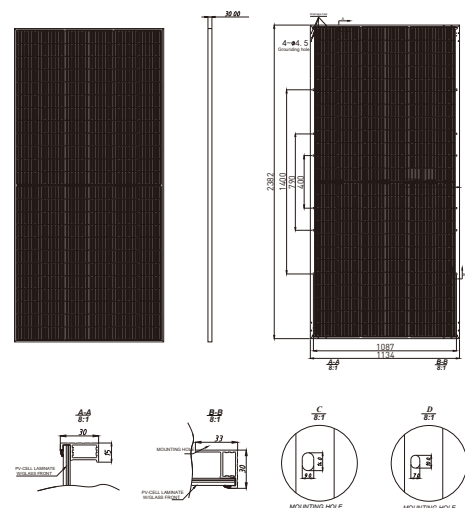
PACKING CONFIGURATION

| | | |
|-----------------------------|-----|---------|
| Pieces Per Pallet | 36 | 36(USA) |
| Pieces Per Container(40'HQ) | 720 | 540 |

Electrical Performance



TECHNICAL DRAWINGS



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