



BIPRO

TD7G54M **108-cell**

395 - 415W

Bifacial Dual Glass

10BB Half-cut Mono Perc



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

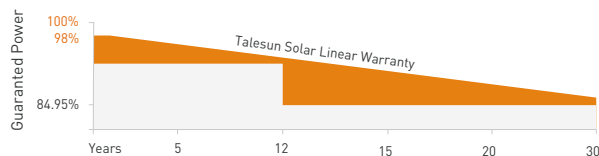


PERFORMANCE WARRANTY

12 Years
Quality Assurance

30 Years
Power Output Guarantee

Linear Performance Warranty



KEY FEATURES



10BB Half-cut Cell Technology

New circuit design, lower internal current, lower R_s loss Ga doped wafer, attenuation $<2\%$ (1st year) / $\leq 0.45\%$ (Linear)



Industry Leading High Yield

Bifacial PERC cell technology, 5%-25% more yield depends on different conditions



Excellent Anti-PID Performance

2 times of industry standard 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 2024.03.22

ELECTRICAL CHARACTERISTICS

| Testing Condition | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 395 | 294 | 400 | 298 | 405 | 302 | 410 | 306 | 415 | 310 |
| Operating Voltage (Vmpp/V) | 30.85 | 28.8 | 31.05 | 29.0 | 31.24 | 29.2 | 31.43 | 29.3 | 31.64 | 29.6 |
| Operating Current (Impp/A) | 12.81 | 10.23 | 12.89 | 10.30 | 12.97 | 10.36 | 13.05 | 10.42 | 13.13 | 10.48 |
| Open-Circuit Voltage (Voc/V) | 36.75 | 34.6 | 37.00 | 34.8 | 37.25 | 35.1 | 37.50 | 35.3 | 37.75 | 35.5 |
| Short-Circuit Current (Isc/A) | 13.69 | 11.04 | 13.78 | 11.11 | 13.86 | 11.17 | 13.94 | 11.24 | 14.02 | 11.30 |
| Module Efficiency [%] | 20.22 | | 20.48 | | 20.73 | | 21.00 | | 21.25 | |

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 410W FRONT)

| | | | | | |
|-----------|-------|-------|-------|-------|-------|
| Pmax gain | 5% | 10% | 15% | 20% | 25% |
| Pmax/W | 431 | 451 | 472 | 492 | 513 |
| Vmpp/V | 31.43 | 31.43 | 31.43 | 31.43 | 31.43 |
| Impp/A | 13.70 | 14.36 | 15.01 | 15.66 | 16.31 |
| Voc/V | 37.50 | 37.50 | 37.50 | 37.50 | 37.50 |
| Isc/A | 14.65 | 15.35 | 16.04 | 16.74 | 17.44 |

MECHANICAL CHARACTERISTICS

| | |
|-------------------|---|
| Cell Type | Monocrystalline Silicon (10Busbar) |
| No. of Cells | 108pcs in series (6*18) |
| Module Dimensions | 1722*1134*30mm (67.80*44.65*1.18inches) |
| Weight | 25.5kg (56.22lbs) |
| 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 | 70%±5% |

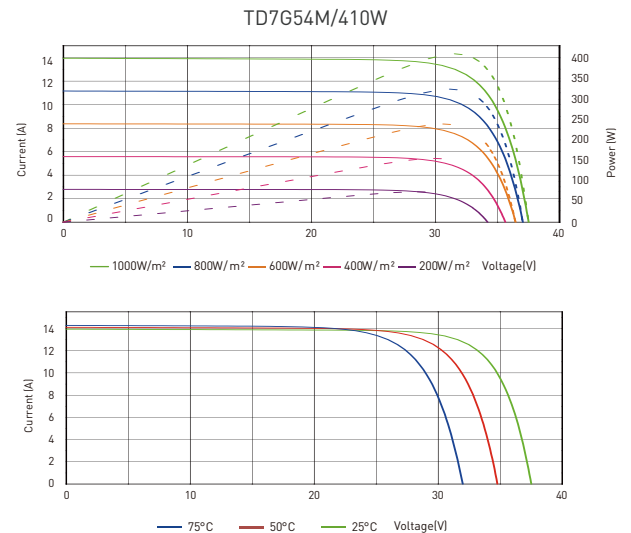
TEMPERATURE CHARACTERISTICS

| | |
|--|------------|
| Temperature Coefficient of Pmax | -0.35%/°C |
| Temperature Coefficient of Voc | -0.26%/°C |
| Temperature Coefficient of Isc | +0.048%/°C |
| Nominal Module Operating Temperature(NMOT) | 43±2°C |

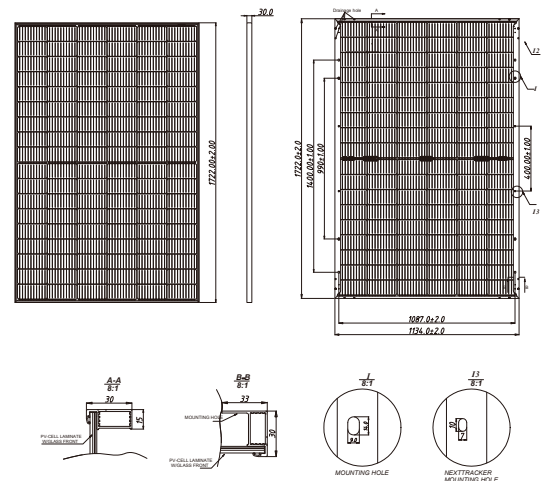
PACKING CONFIGURATION

| | | |
|-----------------------------|-----|---------|
| Pieces Per Pallet | 36 | 36(USA) |
| Pieces Per Container(40'HQ) | 936 | 720 |

I-V CURVE



TECHNICAL DRAWINGS



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhou Talesun Solar Technologies Co., Ltd. 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.