

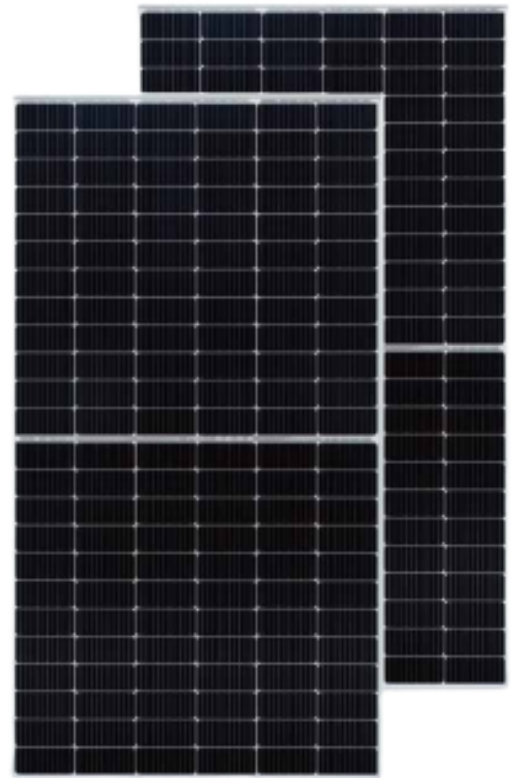


BIPRO

TD7G72M 144 HALF-CELL

530 - 550W

bifacial dual glass
10BB half-cut mono perc



KEY FEATURES



10BB half-cut cell technology

New circuit design, lower internal current, lower Rs 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 by TUV SUD



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

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

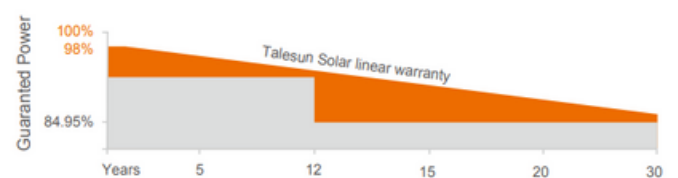


PERFORMANCE WARRANTY



Linear Performance Warranty

Standard Performance Warranty



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 ~ +3%)

| | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 530 | 535 | 540 | 545 | 550 |
| Operating Voltage (Vmpp/V) | 41.32 | 41.48 | 41.64 | 41.80 | 41.96 |
| Operating Current (Impp/A) | 12.83 | 12.90 | 12.97 | 13.04 | 13.11 |
| Open-Circuit Voltage (Voc/V) | 49.32 | 49.46 | 49.60 | 49.76 | 49.92 |
| Short-Circuit Current (Isc/A) | 13.72 | 13.79 | 13.86 | 13.93 | 14.00 |
| Module Efficiency η_m (%) | 20.5 | 20.6 | 20.8 | 21.0 | 21.2 |

Performance at NMOT

| | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 395 | 398 | 402 | 406 | 410 |
| Operating Voltage (Vmpp/V) | 38.6 | 38.7 | 38.8 | 39.0 | 39.1 |
| Operating Current (Impp/A) | 10.24 | 10.30 | 10.36 | 10.41 | 10.47 |
| Open-Circuit Voltage (Voc/V) | 46.4 | 46.5 | 46.7 | 46.8 | 47.0 |
| Short-Circuit Current (Isc/A) | 11.06 | 11.12 | 11.17 | 11.23 | 11.28 |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Electrical characteristics with different rear side power gain (refer to 530W front)

| Pmax gain | Pmax/W | Vmpp/V | Impp/A | Voc/V | Isc/A |
|-----------|--------|--------|--------|-------|-------|
| 5% | 557 | 41.32 | 13.47 | 49.32 | 14.41 |
| 10% | 583 | 41.32 | 14.11 | 49.32 | 15.09 |
| 15% | 610 | 41.32 | 14.75 | 49.32 | 15.78 |
| 20% | 636 | 41.32 | 15.40 | 49.32 | 16.46 |
| 25% | 663 | 41.32 | 16.04 | 49.32 | 17.15 |

MECHANICAL SPECIFICATION

| | |
|---------------------------------|--|
| Cell Type | Monocrystalline |
| Cell Dimensions | 182*182mm |
| Cell Arrangement | 144 (6*24) |
| Weight | 32.2kg (71lbs.) |
| Module Dimensions | 2285*1134*35mm (89.96*44.65*1.38inches) |
| Cable Length | Portrait 300mm/Landscape 1200mm/Customized |
| Cable Cross Section Size | TUV: 4mm ² (0.006inches ²) /UL: 12AWG |
| Front Glass | 2.0mm (0.08 inches) AR Coating Semi-tempered Glass |
| Back Glass | 2.0mm (0.08 inches) Glazed Semi-tempered Glass |
| No. of Bypass Diodes | 3 |
| Packing Configuration (1) | 31pcs/carton, 620pcs/40hq |
| Packing Configuration (for USA) | 31pcs/carton, 558pcs/40hq |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 |

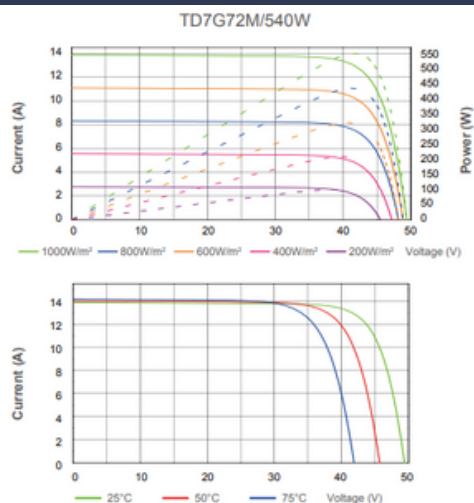
OPERATING CONDITIONS

| | |
|---|--|
| Maximum System Voltage | 1500V/DC(IEC) |
| Operating Temperature | -40°C ~ +85°C |
| Maximum Series Fuse | 30A |
| Static Loading | Snow Loading: 5400Pa/ Wind Loading: 2400Pa |
| Conductivity at Ground | $\leq 0.1\Omega$ |
| Safety Class | II |
| Resistance | $\geq 100M\Omega$ |
| Connector | T01/LJQ-3-CSY/MC4/MC4-EVO2 |
| Backside Output Ratio* | 70% \pm 5% |
| Under STC: Backside Output Ratio = Pmax(rear) / Pmax(front) | |

TEMPERATURE COEFFICIENT

| | |
|------------------------------|--------------|
| Temperature Coefficient Pmax | -0.35%/°C |
| Temperature Coefficient Voc | -0.26%/°C |
| Temperature Coefficient Isc | +0.048%/°C |
| NMOT | 43 \pm 2°C |

I-V CURVE



TECHNICAL DRAWINGS

