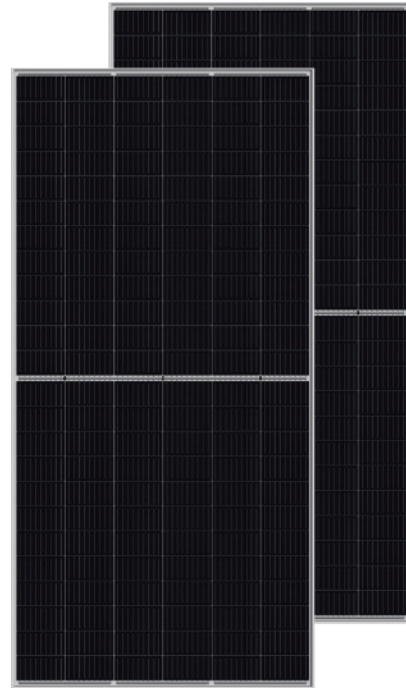


BISTAR

TP6F72M **144 half-cell**

395 - 415W

9BB half-cut mono perc



KEY FEATURES



9BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss



Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



Lower LCOE

2% more power generation, lower LCOE



Anti
PID

Excellent Anti-PID performance

2 times of industry standard Anti-PID test by TUV SUD



IP68 junction box

High waterproof level

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

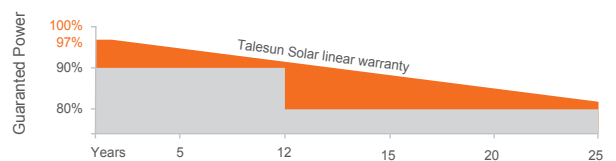


PERFORMANCE WARRANTY

12 years
Quality assurance

25 years
Power output guarantee

■ Talesun standard
■ Industry standard



ELECTRICAL PARAMETERS

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

| | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 395 | 400 | 405 | 410 | 415 |
| Operating Voltage (Vmpp/W) | 40.3 | 40.5 | 40.7 | 40.9 | 41.1 |
| Operating Current (Impp/A) | 9.81 | 9.89 | 9.96 | 10.04 | 10.11 |
| Open-Circuit Voltage (Voc/V) | 48.9 | 49.1 | 49.3 | 49.5 | 49.8 |
| Short-Circuit Current (Isc/A) | 10.35 | 10.43 | 10.50 | 10.58 | 10.66 |
| Module Efficiency ηm(%) | 19.6 | 19.9 | 20.1 | 20.4 | 20.6 |

Performance at NMOT

| | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 294.6 | 298.5 | 302.1 | 305.9 | 309.5 |
| Operating Voltage (Vmpp/W) | 37.5 | 37.7 | 37.9 | 38.0 | 38.3 |
| Operating Current (Impp/A) | 7.85 | 7.93 | 7.98 | 8.04 | 8.09 |
| Open-Circuit Voltage (Voc/V) | 45.5 | 45.7 | 45.9 | 46.1 | 46.4 |
| Short-Circuit Current (Isc/A) | 8.35 | 8.42 | 8.48 | 8.54 | 8.60 |

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

MECHANICAL SPECIFICATION

| | |
|--------------------------|--|
| Cell Type | Mono-Crystalline Silicon (9Busbar) |
| Cell Dimensions | 158.75*158.75mm (6inches) |
| Cell Arrangement | 144 (6*24) |
| Weight | 22.5kg (49.6lbs) |
| Module Dimensions | 2008*1002*35 (79.06*39.45*1.38inches) |
| Cable Length | 300mm (11.81inches) |
| Cable Cross Section Size | 4mm ² (0.006inches ²) |
| Front Glass | 3.2mm High Transmission, Tempered Glass |
| No. of Bypass Diodes | 3/6 |
| Packing Configuration(1) | 31pcs/carton, 682pcs/40hq |
| Packing Configuration(2) | 31+4pcs/carton, 726pcs/40hq |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 |

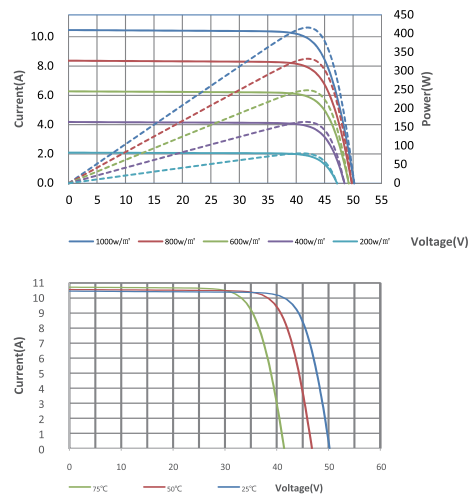
OPERATING CONDITIONS

| | |
|------------------------|----------------|
| Maximum System Voltage | 1500V/DC |
| Operating Temperature | -40°C ~ +85°C |
| Maximum Series Fuse | 20A |
| Static Loading | 5400pa |
| Conductivity at Ground | ≤0.1Ω |
| Safety Class | II |
| Resistance | ≥100MΩ |
| Connector | MC4 Compatible |

TEMPERATURE COEFFICIENT

| | |
|------------------------------|------------|
| Temperature Coefficient Pmax | -0.36%/°C |
| Temperature Coefficient Voc | -0.26%/°C |
| Temperature Coefficient Isc | +0.043%/°C |
| NMOT | 43±2°C |

I-V CURVE



TECHNICAL DRAWINGS

