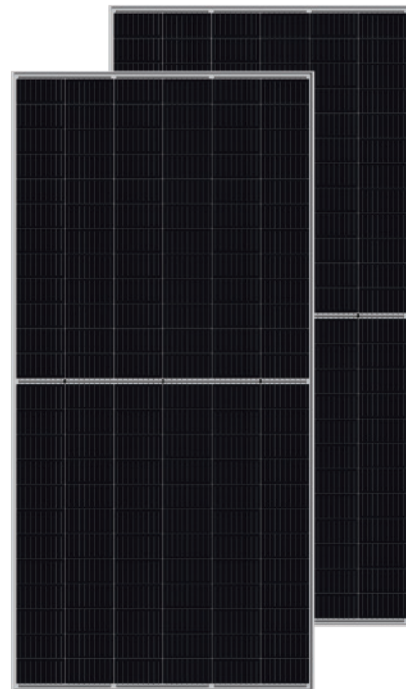


# BISTAR

TP6F72M  
TP6F72M(H) **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

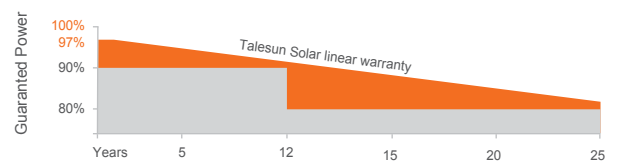


## PERFORMANCE WARRANTY

**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/V)	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

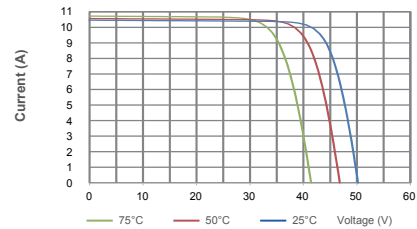
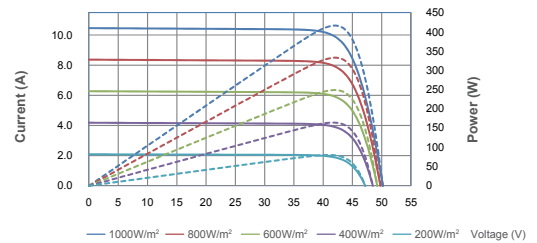
Maximum Power (Pmax/W)	294.6	298.5	302.1	305.9	309.5
Operating Voltage (Vmpp/V)	37.5	37.7	37.9	38.0	38.3
Operating Current (Impp/A)	7.85	7.93	7.98	8.04	8.09
Open-Circuit Voltage (Voc/V)	45.5	45.7	45.9	46.1	46.4
Short-Circuit Current (Isc/A)	8.35	8.42	8.48	8.54	8.60

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, 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*35mm (79.06*39.45*1.38inches)
Cable Length (Portrait)	(+)300mm (11.81inches) / (-)300mm (11.81inches)
Cable Length (Landscape)	(+)1200mm (47.24inches) / (-)1200mm (47.24inches)
Cable Cross Section Size	4mm <sup>2</sup> (0.006inches <sup>2</sup> )
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

## I-V CURVE



## OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC(IEC)
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

## TECHNICAL DRAWINGS

