

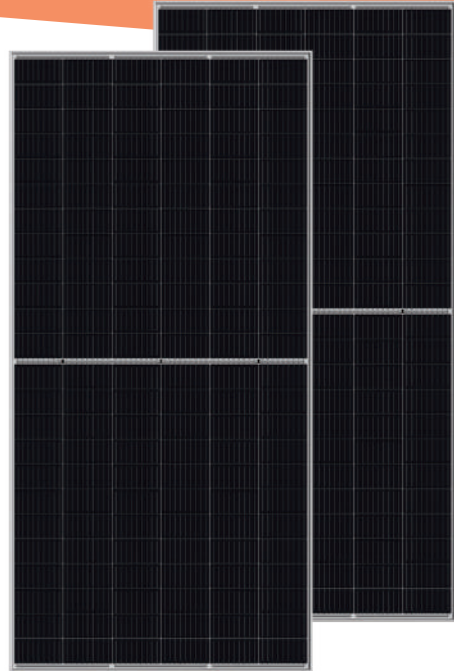


# BISTAR

TP6H72M **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

The highest 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



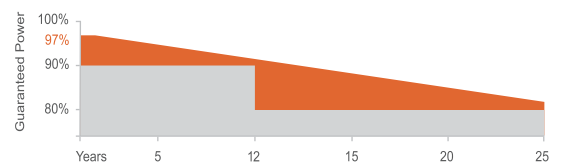
## PERFORMANCE WARRANTY

12 years  
Quality  
assurance

25 years  
Power output  
guarantee

Talesun standard

Industry standard



www.talesun.com

# TALESUN

Annual Module Capacity Globally : 8GW  
China : 7GW  
Thailand : 1GW

Talesun Solar is one of the world's largest integrated clean energy providers, who develops, manufactures and delivers highly reliable and cost-effective solar modules and integrated PV energy solutions for every application and market, for homes, businesses and utility power plants. It was ranked as one of the top 10 module suppliers in 2018, and was also listed as global TIER1 module supplier by BNEF since 2015.

## 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(Imp/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

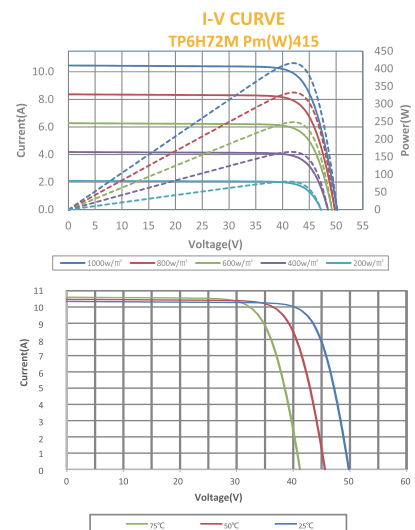
Maximum Power(Pmax/W)	294.6	298.5	302.1	305.9	309.5
Operating Voltage(Vmpp/V)	37.5	37.7	37.9	38.0	38.3
Operating Current(Imp/A)	7.85	7.93	7.98	8.04	8.09
Open-Circuit Voltage(Voc/V)	45.5	45.7	45.9	46.1	46.4
Short-Circuit Current(Isc/A)	8.35	8.42	8.48	8.54	8.60

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(51.8lbs)
Module Dimensions	2008*1002*35mm (79.06*39.45*1.38inches)
Cable Length	300mm(11.81inches)
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)	30pcs/carton
Packing Configuration (2)	30+4pcs/carton, 1carton/pallet
Frame	Anodized Aluminium Alloy
Junction Box	IP68

## I-V CURVE



## OPERATING CONDITIONS

Maximum System Voltage	1000V/DC(IEC)/1500V/DC(IEC)
Operating Temp	-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	-0.39%/°C
Temperature Coefficient Voc	-0.30%/°C
Temperature Coefficient Isc	+0.05%/°C
NMOT	43±2°C

## TECHNICAL DRAWINGS

