

# BISTAR

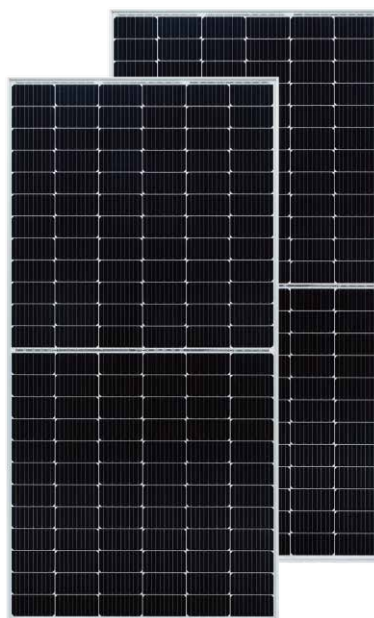
TP6L72M

TP6L72M(H)

## 144 half-cell

435 - 455W

9BB half-cut mono perc



### KEY FEATURES



#### 9BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss  
Ga doped wafer, attenuation < 2% (1st year) / ≤ 0.55% (Linear)



#### Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



#### 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

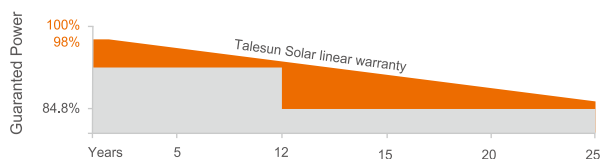


### PERFORMANCE WARRANTY



Linear Performance Warranty

Standard Performance Warranty



## ELECTRICAL PARAMETERS

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

Maximum Power (Pmax/W)	435	440	445	450	455
Operating Voltage (Vmpp/V)	40.3	40.5	40.7	40.9	41.1
Operating Current (Impp/A)	10.80	10.87	10.94	11.01	11.08
Open-Circuit Voltage (Voc/V)	49.0	49.2	49.4	49.6	49.8
Short-Circuit Current (Isc/A)	11.33	11.40	11.47	11.54	11.61
Module Efficiency $\eta$ (%)	20.0	20.2	20.4	20.7	20.9

### Performance at NMOT

Maximum Power (Pmax/W)	324	328	332	335	339
Operating Voltage (Vmpp/V)	37.6	37.8	38.0	38.2	38.4
Operating Current (Impp/A)	8.62	8.67	8.73	8.78	8.84
Open-Circuit Voltage (Voc/V)	45.6	45.8	46.0	46.2	46.4
Short-Circuit Current (Isc/A)	9.15	9.20	9.26	9.32	9.37

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	Monocrystalline
Cell Dimensions	166*166mm
Cell Arrangement	144 (6*24)
Weight	25.5kg (56.22lbs)
Module Dimensions	2094*1038*35mm (82.44*40.87*1.38inches)
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> )/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3
Packing Configuration (1)	31pcs/carton, 682pcs/40hq
Packing Configuration (for USA)	31pcs/carton, 682pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

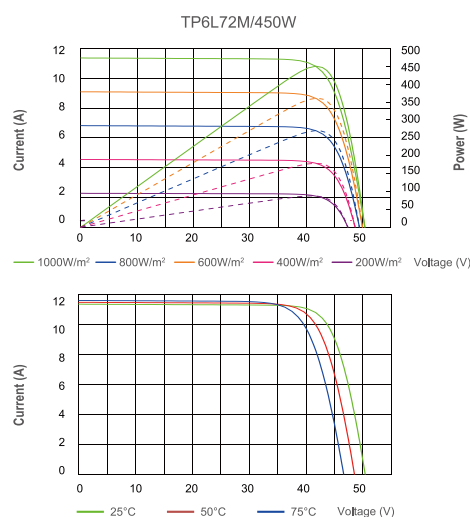
## OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	20A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

## 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

