

# BISTAR

## TP6L72M 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



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

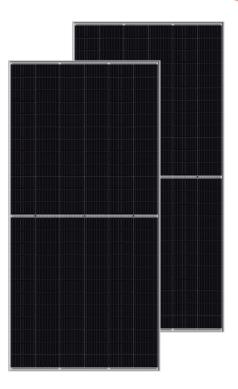


#### Wider application

**IP68** junction box

High waterproof level

No water-permeability and high wear-resistance, can be widely used in high-humid, windy and dusty area



#### **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**



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)	435	440	445	450	455	
Operating Voltage (Vmpp/W)	40.3	40.5	40.7	40.9	41.1	
Operating Current (Impp/A)	10.8	10.87	10.94	11.01	11.08	
Open-Circuit Voltage (Voc/V)	49	49.2	49.4	49.6	49.8	
Short-Circuit Current (Isc/A)	11.33	11.4	11.47	11.54	11.61	
Module Efficiency ηm(%)	19.8	20.1	20.3	20.5	20.8	
Performance at NMOT						
Maximum Power (Pmax/W)	324	328	332	335	339	
Operating Voltage (Vmpp/W)	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	9.2	9.26	9.32	9.37	
STC: Irradiance 1000W/m <sup>2</sup> Cell Temperature 25°C. Air Mass AM1.5	STC: Irradiance 1000W/m <sup>2</sup> Cell Temperature 25°C. Air Mass AM1.5 MMOT: Irradiance at 800W/m <sup>2</sup> Ambient Temperature 20°C. Air Mass AM1.5 Wind Speed 1m/s					

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperatue 20°C, Air Mass AM1.5, Wind Speed 1m/s

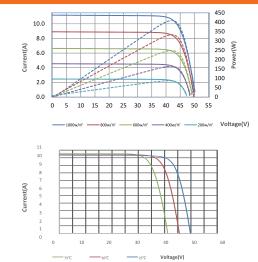
#### **MECHANICAL SPECIFICATION**

#### I-V CURVE

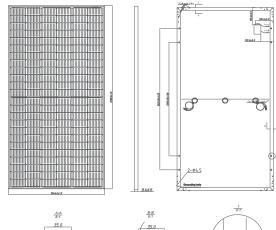
Cell Type	mono-Crystalline Silicon (9Busbar)
Cell Dimensions	166*166mm (6inches)
Cell Arrangement	144 (6*24)
Weight	25.5kg (56.2lbs)
Module Dimensions	2098*1046*35 (82.60*41.18*1.38inches)
Cable Length	300mm (11.81inches)
Cable Cross Section Size	4mm <sup>2</sup> (0.006inches <sup>2</sup> )
Front Glass	3.2mm High Transmission, Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration	30pcs/carton, 660pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

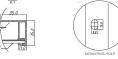
OPERATING CONDITIONS	
Maximun System Voltage	1500V/DC
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	20A
Static Loading	5400pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

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**







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