

# **BISTAR**

TP6L72M-XXX 144 half-cell

435 - 445W

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



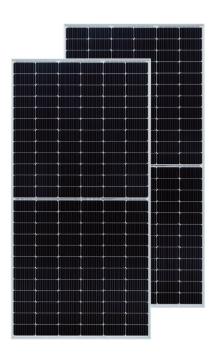
#### Wider application

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**

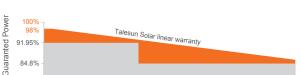
- IEC 61215 / IEC 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

#### **PERFORMANCE WARRANTY**









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marketing.hq@talesun.com Made in China/Thailand



## Performance at STC (Power To

#### Performance at STC (Power Tolerance ±3%; Binning tolerance: 0~+5W)

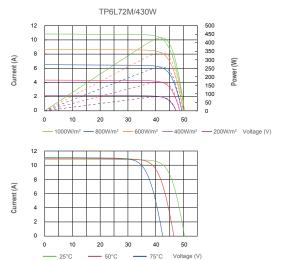
Terretmande at elle (Ferret Telerande 2070, Enning telerande: 6 Ferry				
Maximum Power (Pmax/W)	435	440	445	
Operating Voltage (Vmpp/V)	40.3	40.5	40.7	
Operating Current (Impp/A)	10.8	10.87	10.94	
Open-Circuit Voltage (Voc/V) (Tolerance ±4%)	49	49.2	49.4	
Short-Circuit Current (Isc/A) (Tolerance ±4%)	11.33	11.4	11.47	
Module Efficiency ηm(%)	20.0	20.2	20.4	
Performance at NMOT				
Maximum Power (Pmax/W)	324	328	332	
Operating Voltage (Vmpp/V)	37.6	37.8	38.0	
Operating Current (Impp/A)	8.62	8.67	8.73	
Open-Circuit Voltage (Voc/V)	45.6	45.8	46.0	
Short-Circuit Current (Isc/A)	0.15	9.20	0.26	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 MMOT: Irradiance at 800W/m², 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 (56.2lbs)
Module Dimensions	2094*1038*35mm (82.44*40.87*1.38inches)
Cable Length (Portrait)	(+)300mm (11.81inches) / (-)300mm (11.81inches)
Cable Length (Landscape)	(+)1200mm (47.24inches) / (-)1200mm (47.24inches)
Cable Cross Section Size	4mm² (0.006inches²)
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration	31pcs/carton, 682pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

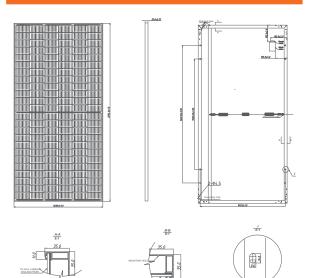
### I-V CURVE



#### **OPERATING CONDITIONS**

Maximun System Voltage	1000V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	20A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector PV-KST4/xy	-UR(male), PV-KBT4/xy-UR(female); T01; LJQ-3
Fire Rating (according to UL79	0) Class C

#### **TECHNICAL DRAWINGS**





Temperature Coefficient Pmax -0.36%°C

Temperature Coefficient Voc -0.26%°C

Temperature Coefficient Isc +0.043%°C

NMOT  $43\pm2$ °C

