



TP6L72M  
TP6L72M(H) **144-cell**

**435 - 455W**

9BB Half-cut Mono Perc



#### 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

12 Years  
Quality Assurance

25 Years  
Power Output Guarantee

Linear Performance Warranty

#### 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)



##### Excellent Anti-PID Performance

2 times of industry standard Anti-PID test

##### 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

[www.talesun.com](http://www.talesun.com)

[marketing.hq@talesun.com](mailto:marketing.hq@talesun.com)

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## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	435	324	440	328	445	332	450	335	455	
Operating Voltage (Vmpp/V)	40.3	37.6	40.5	37.8	40.7	38.0	40.9	38.2	41.1	
Operating Current (Impp/A)	10.80	8.62	10.87	8.67	10.94	8.73	11.01	8.78	11.08	
Open-Circuit Voltage (Voc/V)	49.0	45.6	49.2	45.8	49.4	46.0	49.6	46.2	49.8	
Short-Circuit Current (Isc/A)	11.33	9.15	11.40	9.20	11.47	9.26	11.54	9.32	11.61	
Module Efficiency (%)	20.00		20.20		20.40		20.70		20.90	

STC: Irradiance 1000W/m<sup>2</sup>, Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%  
 NMOT: Irradiance 800W/m<sup>2</sup>, Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

## MECHANICAL CHARACTERISTICS

Cell Type	
No. of Cells	
Module Dimensions	
Weight	
Front Glass	
Frame	
Junction Box	
Output Cables	
Connectors	

## I-V CURVE

## APPLICATION CONDITIONS

Maximum System Voltage	1000V/1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Safety Protection Class	Class II

## TECHNICAL DRAWINGS

## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

## PACKING CONFIGURATION

Pieces Per Pallet	31	31(USA)
Pieces Per Container(40'HQ)	715	682



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