

BISTAR

TP6L72M 144 half-cell TP6L72M(H)

430 - 450W

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 ٠ Management Systems



PERFORMANCE WARRANTY







ELECTRICAL PARAMETERS						
Performance at STC (Power Tolerance 0 ~ ·	+3%)					
Maximum Power (Pmax/W)	430	435	440	445	450	
Operating Voltage (Vmpp/V)	40.1	40.3	40.5	40.7	40.9	
Operating Current (Impp/A)	10.73	10.80	10.87	10.94	11.01	
Open-Circuit Voltage (Voc/V)	48.8	49.0	49.2	49.4	49.6	
Short-Circuit Current (Isc/A)	11.26	11.33	11.40	11.47	11.54	
Module Efficiency ηm(%)	19.7	20.0	20.2	20.4	20.7	
Performance at NMOT						
Maximum Power (Pmax/W)	321	324	328	332	335	
Operating Voltage (Vmpp/V)	37.5	37.6	37.8	38.0	38.2	
Operating Current (Impp/A)	8.56	8.62	8.67	8.73	8.78	
Open-Circuit Voltage (Voc/V)	45.4	45.6	45.8	46.0	46.2	
Short-Circuit Current (Isc/A)	9.09	9.15	9.20	9.26	9.32	
STC: Irradiance 1000W/m ² . Cell Temperature 25°C. Air Mass AM1.5	NMOT: Irradiance at 800W/m ² . Ambient Tempe	ratue 20°C. Air Mas	s AM1.5. Wind Spee	ed 1m/s		

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

-40°C ~ +85°C

20A

MECHANICAL SPECIFICATION

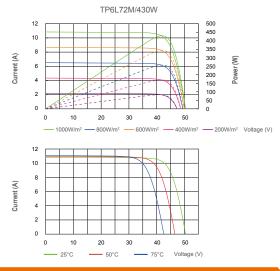
I-V CURVE

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: 4mm2 (0.006inches2)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	31pcs/carton, 682pcs/40hq
Packing Configuration (for USA)	31pcs/carton, 682pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

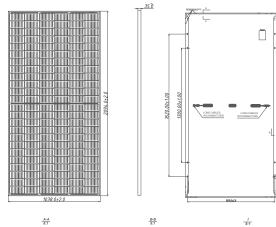
OPERATING CONDITIONS Maximun System Voltage 1000V/1500V/DC(IEC) **Operating Temperature** Maximun Series Fuse

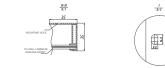
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	П
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

TEMPERATURE COEFFICIENT	
Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C



TECHNICAL DRAWINGS







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