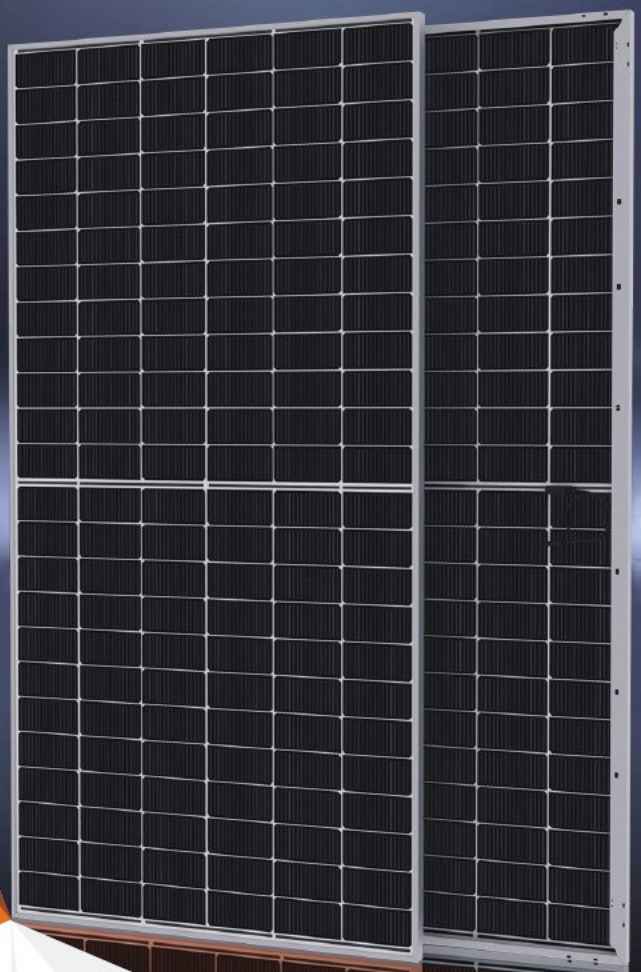
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BIPRO

TM7G72M 144-cell

585 - 605W

Bifacial Dual Glass
16BB Half-cut N-type

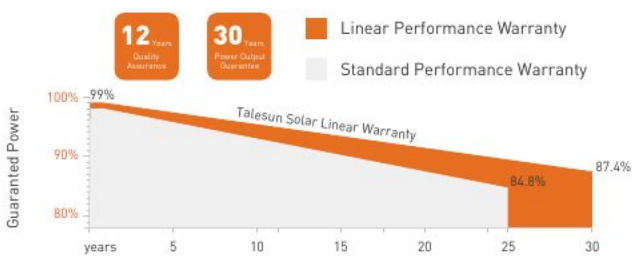


SYSTEM & PRODUCT CERTIFICATES

- 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

c UL us LISTED CE DEKRA

PERFORMANCE WARRANTY



KEY FEATURES

16BB Half-cut Cell Technology

Lower LID/LeTID degradation and better low light performance
Attenuation ⩽1% (1st year) / ⩽0.4% (Linear)

Industry Leading High Yield

Bifacial N-type cell technology,
Dual-sided power generation gain from back side depending on albedo, significantly reduce LCOE

Excellent Anti-PID Performance

PID Anti

192 hours 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
marketing.hq@talesun.com

* GL-EN-Version 2025.05.15

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	585	444	590	448	595	452	600	456	605	460
Operating Voltage (Vmpp/V)	44.22	41.80	44.43	42.00	44.63	42.20	44.83	42.40	45.03	42.60
Operating Current (Impp/A)	13.23	10.62	13.28	10.67	13.33	10.71	13.39	10.75	13.44	10.80
Open-Circuit Voltage (Voc/V)	52.17	49.80	52.38	50.00	52.59	50.20	52.80	50.40	53.01	50.60
Short-Circuit Current (Isc/A)	13.89	11.19	13.94	11.21	13.99	11.23	14.04	11.25	14.09	11.27
Module Efficiency (%)	22.60		22.80		23.00		23.20		23.40	

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25℃. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%
NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20℃, Wind speed 1m/s

REAR SIDE POWER GAIN(REFERENCE TO 590W FRONT)

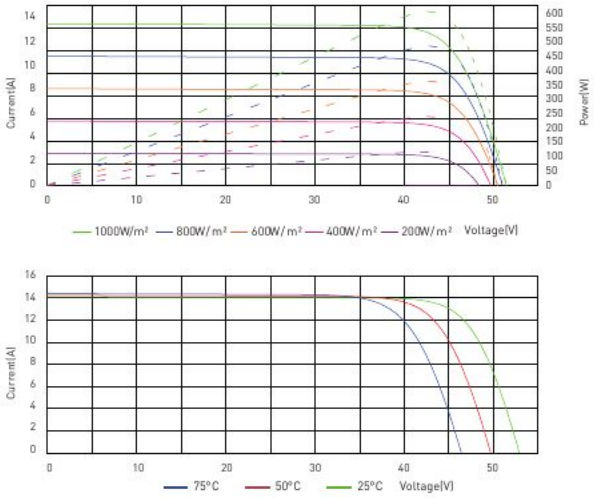
Pmax gain	5%	10%	15%	20%	25%
Pmax/W	620	649	679	708	738
Vmpp/V	44.43	44.43	44.43	44.43	44.43
Impp/A	13.94	14.61	15.27	15.94	16.60
Voc/V	52.38	52.38	52.38	52.38	52.38
Isc/A	14.64	15.33	16.03	16.73	17.43

MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (16Busbar)
No. of Cells	144pcs in series (6*24)
Module Dimensions	2278*1134*30mm (89.69*44.65*1.18inches)
Weight	31.8kg (70.11lbs.)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm²(IEC),12AWG(UL) 350mm(+),250mm(-) or Customized Length
Connectors	MC4/MC4-EVO2A/Others

Electrical Performance

TM7G72M/590W

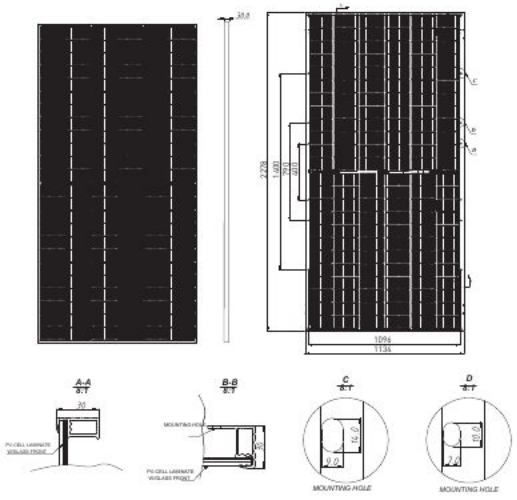


APPLICATION CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximun Series Fuse	30A
Safety Protection Class	Class Ⅱ
Mechanical Load*	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	80%±5%

*Refer to the installation manual for details

TECHNICAL DRAWINGS



TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

PACKING CONFIGURATION

Pieces Per Pallet	37	36(USA)
Pieces Per Container(40'HQ)	740	576

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