



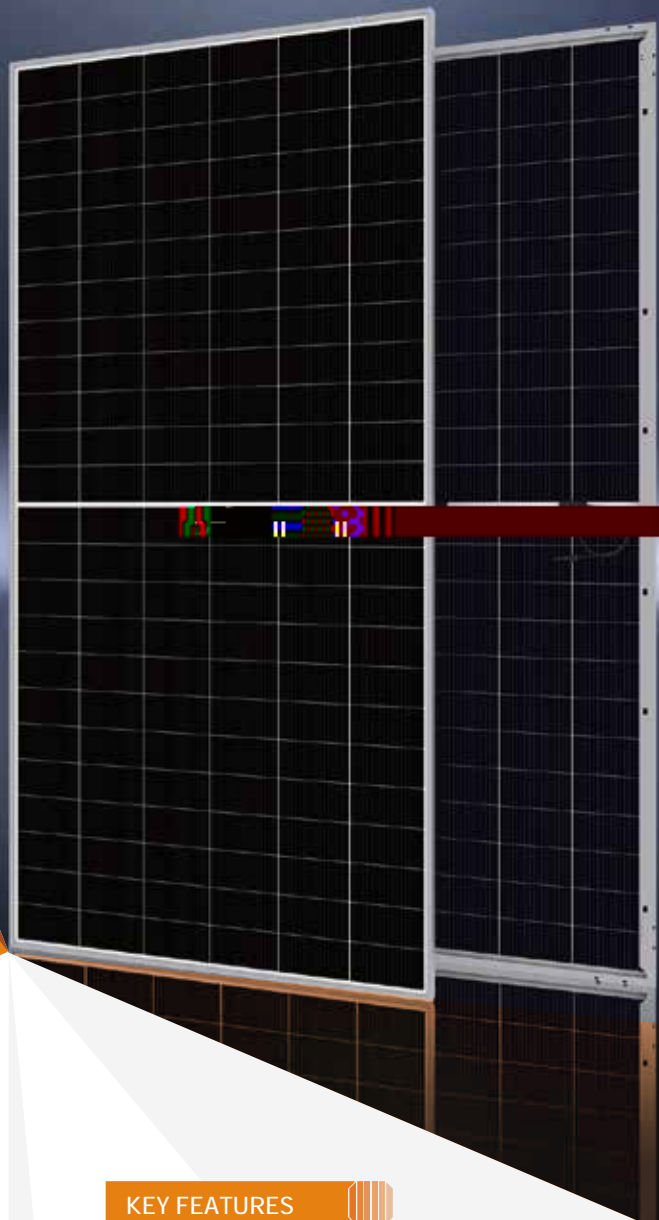
# BIPRO

TM9G72M **144-cell**

600 - 620W

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

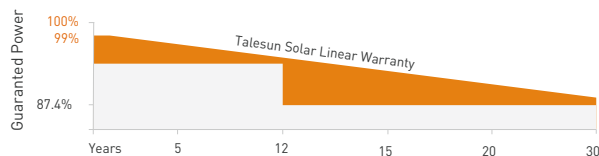


## PERFORMANCE WARRANTY

12 Years  
Quality Assurance

30 Years  
Power Output Guarantee

Linear 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 TOPCon cell technology,  
Dual-sided power generation gain from back side depending on albedo, significantly reduce LCOE



### Excellent Anti-PID Performance

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

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\* GL-EN-Version 2024.05.24

## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	600	451	605	455	610	459	615	463	620	466
Operating Voltage (Vmpp/V)	43.20	40.66	43.37	40.82	43.54	40.98	43.71	41.14	43.88	41.30
Operating Current (Impp/A)	13.88	11.10	13.95	11.15	14.01	11.19	14.06	11.24	14.12	11.29
Open-Circuit Voltage (Voc/V)	51.40	48.82	51.60	49.01	51.80	49.20	52.00	49.39	52.20	49.58
Short-Circuit Current (Isc/A)	14.65	11.82	14.71	11.88	14.79	11.94	14.86	11.99	14.92	12.05
Module Efficiency (%)	22.20		22.40		22.60		22.80		23.00	

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

## REAR SIDE POWER GAIN(REFERENCE TO 605W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	635	666	696	726	756
Vmpp/V	43.36	43.36	43.36	43.36	43.36
Impp/A	14.65	15.35	16.04	16.74	17.44
Voc/V	51.60	51.60	51.60	51.60	51.60
Isc/A	15.45	16.18	16.92	17.65	18.39

## MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (16Busbar)
No. of Cells	144pcs in series (6*24)
Module Dimensions	2382*1134*30mm (93.78*44.65*1.18inches)
Weight	33.8kg (74.52lbs.)
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	4mm <sup>2</sup> (IEC), 12AWG(UL) 350mm(+), 250mm(-) or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

## APPLICATION CONDITIONS

Maximun 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%

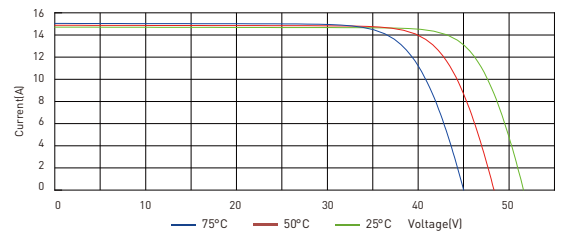
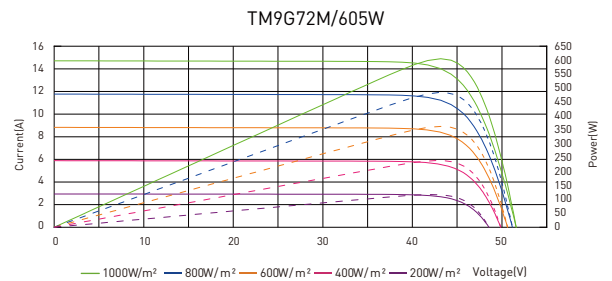
## TEMPERATURE CHARACTERISTICS

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

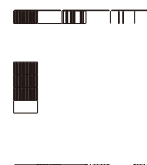
## PACKING CONFIGURATION

Pieces Per Pallet	36	36(USA)
Pieces Per Container(40'HQ)	720	540

## Electrical Performance



## TECHNICAL DRAWINGS



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