



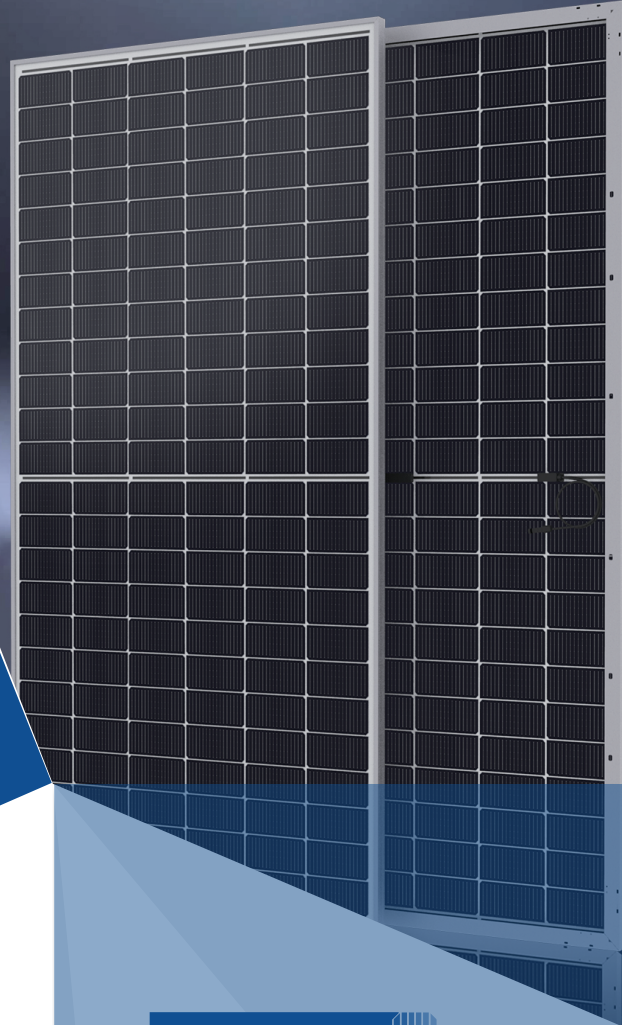
BIPRO

TM7G72M1 44-cell

560 - 580W

Bifacial Dual Glass

16BB Half-cut Mono N-type



KEY FEATURES



16BB Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss
P doped wafer, attenuation < 1% (1st year) ≤ 0.4% (Linear)



Industry Leading High Yield

Bifacial TOPCon cell technology,
5%-25% more yield depends on different conditions



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

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



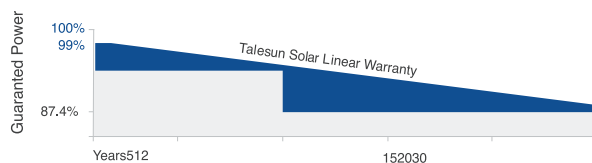
PERFORMANCE WARRANTY

12 Years
Quality Assurance

30 Years
Power Output Guarantee

■ Linear Performance Warranty

■ Standard Performance Warranty



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* GL-EN-Version 2023.08.10

ELECTRICAL CHARACTERISTICS

Testing Condition	STCNMOT		STC	NMOT	STCNMOTSTC		NMOT		STCNMOT	
Maximum Power (Pmax/W)	560	426	565	430	570	434	575	438	580	442
Operating Voltage (Vmpp/V)	41.95	40.00	42.14	40.20	42.29	40.40	42.48	40.60	42.66	40.70
Operating Current (Imp/A)	13.35	10.65	13.41	10.70	13.48	10.75	13.54	10.80	13.60	10.84
Open-Circuit Voltage (Voc/V)	50.67	48.10	50.87	48.30	51.07	48.50	51.27	48.70	51.47	48.90
Short-Circuit Current (Isc/A)	14.13	11.39	14.19	11.44	14.25	11.49	14.31	11.53	14.37	11.58
Module Efficiency (%)	21.68		21.88		22.07		22.27		22.46	

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

REAR SIDE POWER GAIN (REFERENCE TO 580W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	609	638	667	696	725
Vmpp/V	42.66	42.66	42.66	42.66	42.66
Imp/A	14.28	14.96	15.64	16.32	16.99
Voc/V	51.47	51.47	51.47	51.47	51.47
Isc/A	14.96	15.68	16.39	17.10	17.81

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (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	4mm ² (IEC), 12AWG(UL) 300mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EVO2

APPLICATION CONDITIONS

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

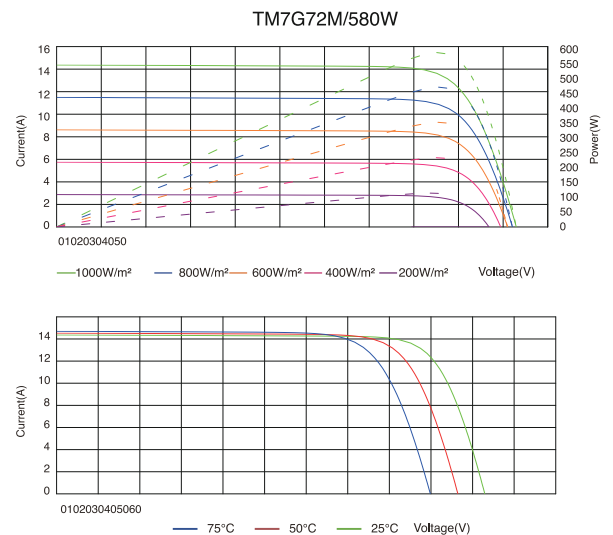
TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

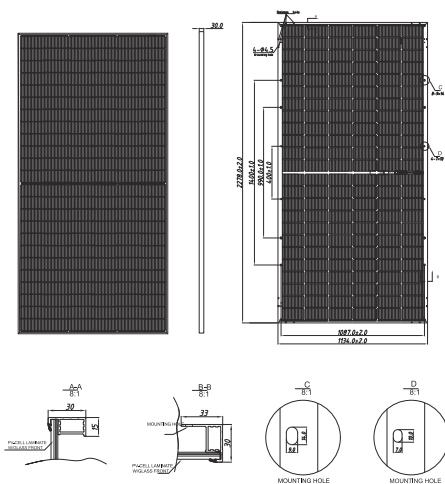
PACKING CONFIGURATION

Pieces Per Pallet	3636(USA)
Pieces Per Container(40'HQ)	720576

I-V CURVE



TECHNICAL DRAWINGS



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