



BIPRO

TM7G78M **156-cell**

605 - 625W

Bifacial Dual Glass

16BB Half-cut Mono 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

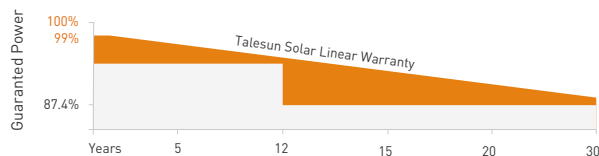


PERFORMANCE WARRANTY

12 Years
Quality Assurance

30 Years
Power Output Guarantee

Linear Performance Warranty



KEY FEATURES



16BB Half-cut Cell Technology

New circuit design, lower internal current, lower R_s loss
Ga doped wafer, attenuation $< 1\%$ (1st year) / $\leq 0.4\%$ (Linear)



Industry Leading High Yield

Bifacial TOPCon cell technology,
10%-30% 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

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* GL-EN-Version 2023.09.25

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	605	462	610	465	615	469	620	473	625	477
Operating Voltage (Vmpp/V)	45.43	43.50	45.59	43.60	45.77	43.70	45.93	43.80	46.10	43.90
Operating Current (Impp/A)	13.32	10.62	13.38	10.68	13.44	10.74	13.51	10.80	13.56	10.86
Open-Circuit Voltage (Voc/V)	55.18	52.50	55.31	52.60	55.43	52.70	55.56	52.90	55.72	53.00
Short-Circuit Current (Isc/A)	13.95	11.25	14.02	11.30	14.11	11.38	14.19	11.44	14.26	11.50
Module Efficiency (%)	21.64		21.82		22.00		22.18		22.36	

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 620W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	651	682	713	744	775
Vmpp/V	45.93	45.93	45.93	45.93	45.93
Impp/A	14.24	14.91	15.59	16.27	16.95
Voc/V	55.56	55.56	55.56	55.56	55.56
Isc/A	14.96	15.68	16.39	17.10	17.81

MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (16Busbar)
No. of Cells	156pcs in series (6*26)
Module Dimensions	2465*1134*35mm (97.05*44.65*1.38inches)
Weight	35kg (77.2lbs.)
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-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%

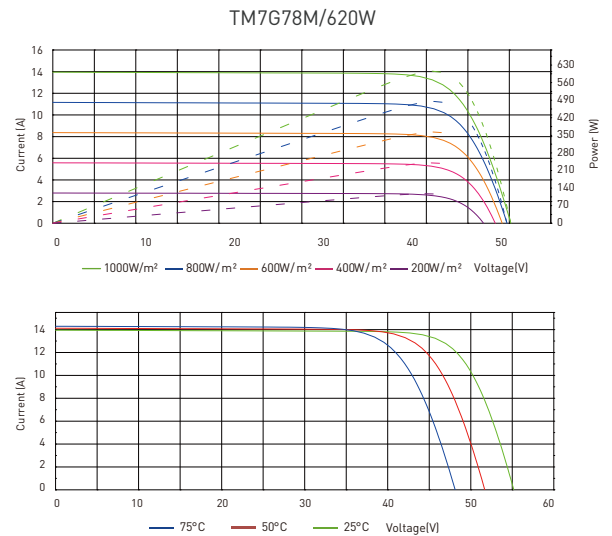
TEMPERATURE CHARACTERISTICS

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

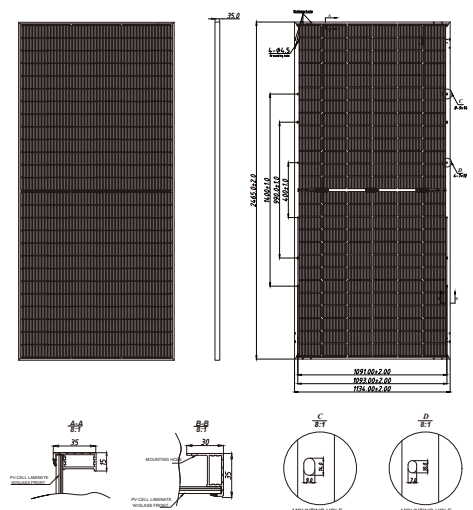
PACKING CONFIGURATION

Pieces Per Pallet	31	31(USA)
Pieces Per Container(40'HQ)	496	496

I-V CURVE



TECHNICAL DRAWINGS



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