



BIPRO

TM8G60M **120-cell**

620 - 640W

Bifacial Dual Glass

18BB 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

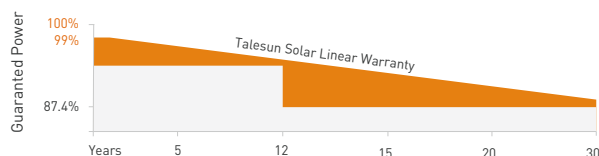


PERFORMANCE WARRANTY

12 Years
Quality Assurance

30 Years
Power Output Guarantee

Linear Performance Warranty



KEY FEATURES



18BB Half-cut Cell Technology

Lower LID/LeTID degradation and better low light performance
Attenuation $\leq 1\%$ (1st year) / $\leq 0.4\%$ (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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ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	620	473	625	478	630	482	635	486	640	490
Operating Voltage (Vmpp/V)	36.20	33.90	36.40	34.30	36.60	34.50	36.80	34.70	37.00	35.00
Operating Current (Impp/A)	17.13	13.94	17.19	13.95	17.22	13.96	17.26	13.98	17.30	14.00
Open-Circuit Voltage (Voc/V)	43.20	40.90	43.50	41.20	43.90	41.60	44.20	41.90	44.50	42.10
Short-Circuit Current (Isc/A)	18.18	14.65	18.21	14.68	18.24	14.70	18.27	14.73	18.30	14.75
Module Efficiency [%]	21.90		22.10		22.30		22.40		22.60	

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 630W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	662	693	725	756	788
Vmpp/V	36.60	36.60	36.60	36.60	36.60
Impp/A	18.08	18.94	19.80	20.66	21.53
Voc/V	43.90	43.90	43.90	43.90	43.90
Isc/A	19.15	20.06	20.98	21.89	22.80

MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystalline (18Busbar)
No. of Cells	120pcs in series (6*20)
Module Dimensions	2172*1303*33mm (85.51*51.30*1.30inches)
Weight	34.9kg (76.94lbs.)
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) 350(+),280(-)mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

APPLICATION CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	35A
Safety Protection Class	Class II
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	80%±5%

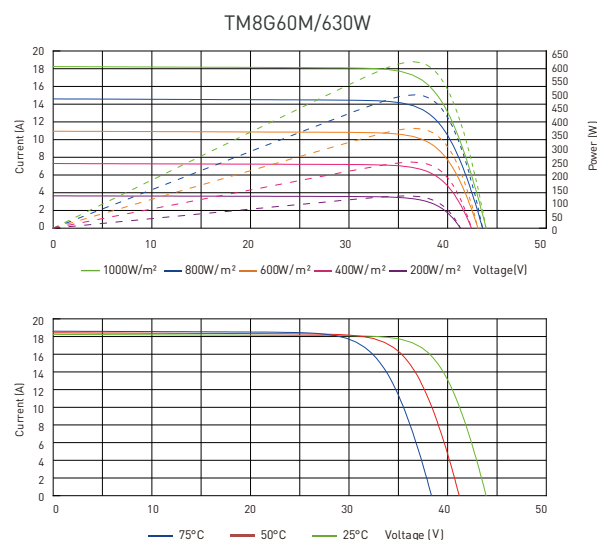
TEMPERATURE CHARACTERISTICS

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

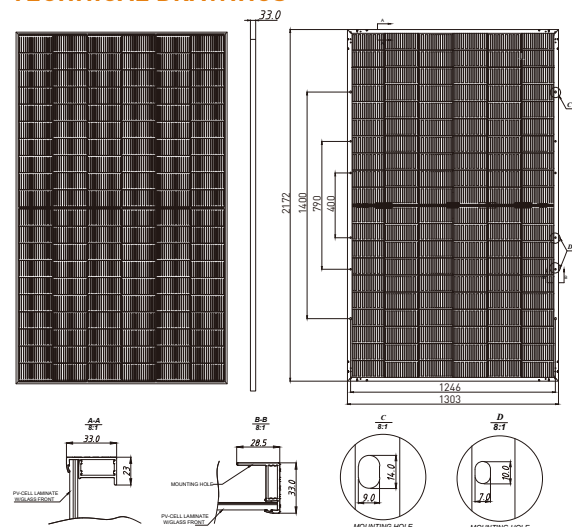
PACKING CONFIGURATION

Pieces Per Pallet	33	33(USA)
Pieces Per Container(40'HQ)	594	528

Electrical Performance



TECHNICAL DRAWINGS



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