



# 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

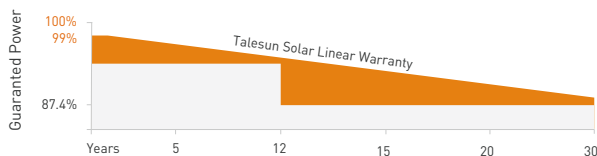


## PERFORMANCE WARRANTY

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

[www.talesun.com](http://www.talesun.com)

[marketing.hq@talesun.com](mailto:marketing.hq@talesun.com)

\* GL-EN-Version 2024.03.22

## 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/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 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-Crystallin (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 <sup>2</sup> (IEC), 12AWG(UL) 350(+),280(-)mm 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	35A
Safety Protection Class	Class II
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	80%±5%

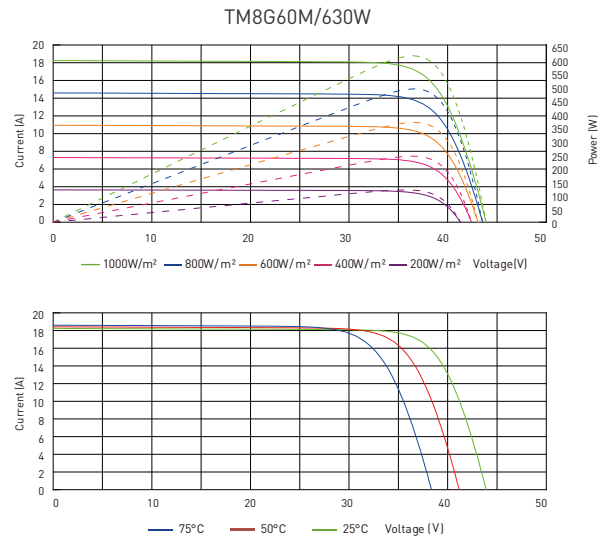
## TEMPERATURE CHARACTERISTICS

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

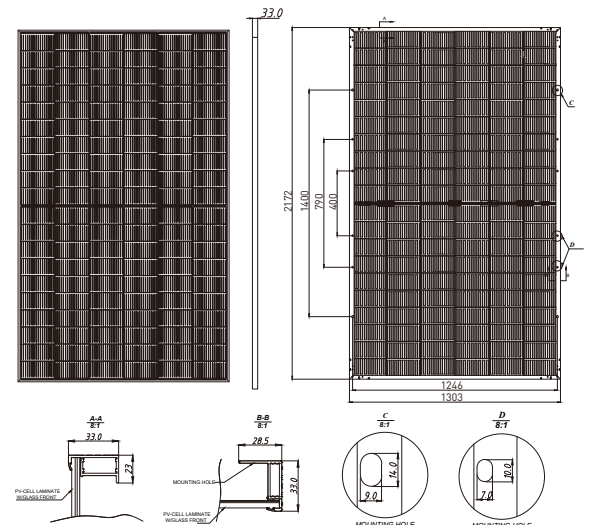
## PACKING CONFIGURATION

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

## Electrical Performance



## TECHNICAL DRAWINGS



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhou Talesun Solar Technologies Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.