



# BIPRO

TD8G60M **120-cell**

585 - 605W

Bifacial Dual Glass

12BB Half-cut Mono Perc



## 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

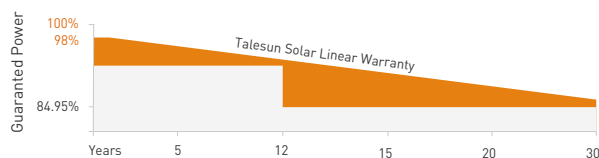


## PERFORMANCE WARRANTY

**12** Years  
Quality  
Assurance

**30** Years  
Power Output  
Guarantee

Linear Performance Warranty



## KEY FEATURES



### 12BB Half-cut Cell Technology

New circuit design, lower internal current, lower  $R_s$  loss  
Ga doped wafer, attenuation  $< 2\%$  (1st year) /  $\leq 0.45\%$  (Linear)



### Industry Leading High Yield

Bifacial PERC 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



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ELECTRICAL CHARACTERISTICS

| Testing Condition             | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W)        | 585   | 437   | 590   | 441   | 595   | 444   | 600   | 448   | 605   | 452   |
| Operating Voltage (Vmpp/V)    | 34.1  | 32.0  | 34.3  | 32.2  | 34.5  | 32.4  | 34.7  | 32.6  | 34.9  | 32.7  |
| Operating Current (Impp/A)    | 17.16 | 13.65 | 17.21 | 13.69 | 17.25 | 13.72 | 17.30 | 13.77 | 17.34 | 13.80 |
| Open-Circuit Voltage (Voc/V)  | 41.0  | 38.7  | 41.2  | 38.9  | 41.4  | 39.1  | 41.6  | 39.3  | 41.8  | 39.4  |
| Short-Circuit Current (Isc/A) | 18.25 | 14.72 | 18.30 | 14.75 | 18.34 | 14.78 | 18.39 | 14.82 | 18.43 | 14.85 |
| Module Efficiency [%]         | 20.70 |       | 20.80 |       | 21.00 |       | 21.20 |       | 21.40 |       |

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 595W FRONT)

|           |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|
| Pmax gain | 5%    | 10%   | 15%   | 20%   | 25%   |
| Pmax/W    | 625   | 655   | 684   | 714   | 744   |
| Vmpp/V    | 34.50 | 34.50 | 34.50 | 34.50 | 34.50 |
| Impp/A    | 18.11 | 18.98 | 19.84 | 20.70 | 21.56 |
| Voc/V     | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 |
| Isc/A     | 19.23 | 20.14 | 21.06 | 21.97 | 22.89 |

MECHANICAL CHARACTERISTICS

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Cell Type         | Monocrystalline Silicon (12Busbar)                            |
| No. of Cells      | 120pcs in series (6*20)                                       |
| Module Dimensions | 2172*1303*35mm (85.51*51.30*1.38inches)                       |
| Weight            | 34.8kg (76.72lbs.)                                            |
| 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     | 4mm² (IEC), 12AWG(UL)<br>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       | 35A                                 |
| Safety Protection Class   | Class II                            |
| Mechanical Load           | Front side 5400Pa, Back side 2400Pa |
| Refer. Bifaciality Factor | 70%±5%                              |

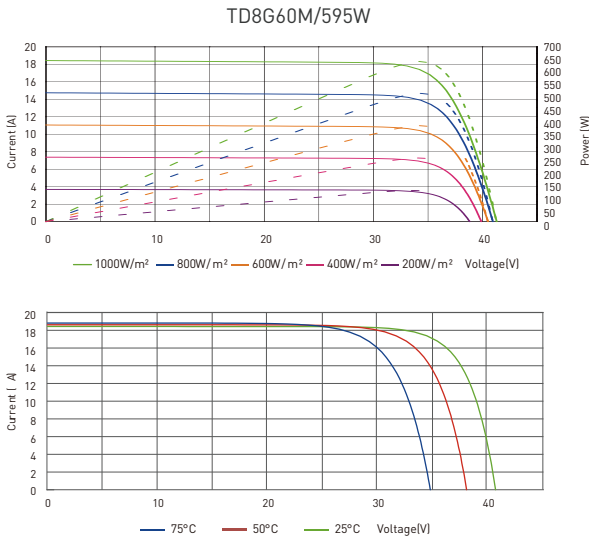
TEMPERATURE CHARACTERISTICS

|                                            |            |
|--------------------------------------------|------------|
| Temperature Coefficient of Pmax            | -0.34%/°C  |
| Temperature Coefficient of Voc             | -0.25%/°C  |
| Temperature Coefficient of Isc             | +0.046%/°C |
| Nominal Module Operating Temperature(NMOT) | 43±2°C     |

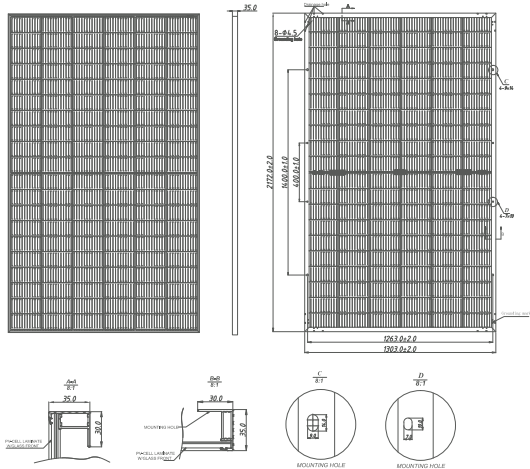
PACKING CONFIGURATION

|                             |     |         |
|-----------------------------|-----|---------|
| Pieces Per Pallet           | 31  | 31(USA) |
| Pieces Per Container(40'HQ) | 558 | 527     |

I-V CURVE



TECHNICAL DRAWINGS



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