



# BISTAR

TP7F78M  
TP7F78M(H) **156-cell**

**580 - 600W**

10BB Half-cut Mono Perc



## SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61703
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems



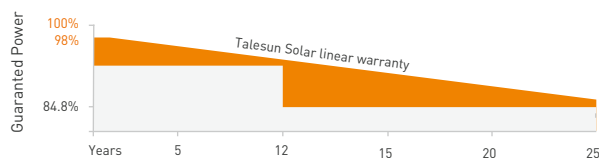
## PERFORMANCE WARRANTY

**12** Years  
Quality Assurance

**25** Years  
Power Output Guarantee

Linear Performance Warranty

Standard Performance Warranty



## KEY FEATURES



### 10BB Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss  
Ga doped wafer, attenuation <2% (1st year) / ≤0.55% (Linear)



### Significantly Lower the Risk of Hot Spot

Special circuit design with much lower hot spot temperature



### Lower LCOE

2% more power generation, lower LCOE



### Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



### IP68 Junction Box

High waterproof level

## ELECTRICAL CHARACTERISTICS

| Testing Condition             | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W)        | 580   | 432   | 585   | 436   | 590   | 439   | 595   | 443   | 600   | 447   |
| Operating Voltage (Vmpp/V)    | 44.97 | 41.9  | 45.11 | 42.1  | 45.25 | 42.2  | 45.39 | 42.3  | 45.53 | 42.5  |
| Operating Current (Impp/A)    | 12.90 | 10.30 | 12.97 | 10.35 | 13.04 | 10.41 | 13.11 | 10.46 | 13.18 | 10.52 |
| Open-Circuit Voltage (Voc/V)  | 53.59 | 50.4  | 53.73 | 50.6  | 53.87 | 50.7  | 54.01 | 50.8  | 54.15 | 51.0  |
| Short-Circuit Current (Isc/A) | 13.79 | 11.12 | 13.86 | 11.17 | 13.93 | 11.23 | 14.00 | 11.28 | 14.07 | 11.34 |
| Module Efficiency (%)         | 20.70 |       | 20.90 |       | 21.10 |       | 21.30 |       | 21.50 |       |

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

## MECHANICAL CHARACTERISTICS

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Solar Cell        | Monocrystalline 182*182mm                                                 |
| No. of Cells      | 156 (6*26)                                                                |
| Module Dimensions | 2465*1134*35mm<br>(97.05*44.65*1.38inches)                                |
| Weight            | 31.5kg (69.45lbs.)                                                        |
| Front Glass       | 3.2mm AR Coating Tempered Glass                                           |
| Frame             | Anodized Aluminium Alloy                                                  |
| Junction Box      | IP68, 3 Bypass Diodes                                                     |
| Output Cables     | 4mm <sup>2</sup> (IEC), 12AWG(UL)<br>300mm in Length or Customized Length |
| Connectors        | T01/LJQ-3-CSY/MC4/MC4-EV02                                                |

## APPLICATION CONDITIONS

|                              |                |
|------------------------------|----------------|
| Maximum System Voltage       | 1000V/1500V/DC |
| Operating Temperature        | -40°C~+85°C    |
| Maximum Series Fuse          | 25A            |
| Safety Protection Class      | Class II       |
| Mechanical Load (Front side) | 5400Pa         |
| Mechanical Load (Back side)  | 2400Pa         |

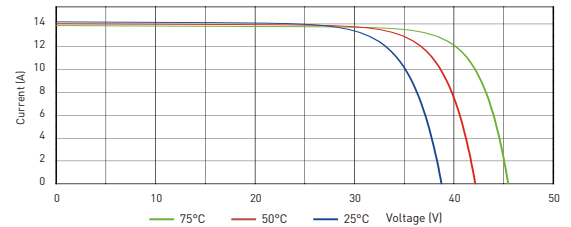
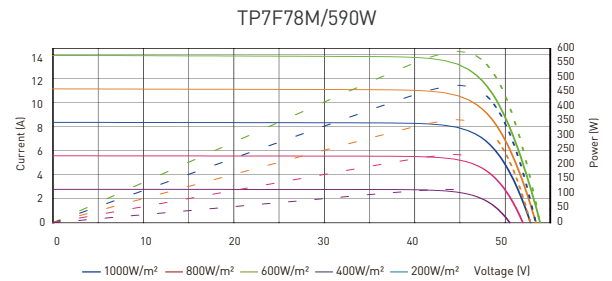
## TEMPERATURE CHARACTERISTICS

|                                            |            |
|--------------------------------------------|------------|
| Temperature Coefficient of Pmax            | -0.35%/°C  |
| Temperature Coefficient of Voc             | -0.26%/°C  |
| Temperature Coefficient of Isc             | +0.048%/°C |
| Nominal Module Operating Temperature(NMOT) | 43±2°C     |

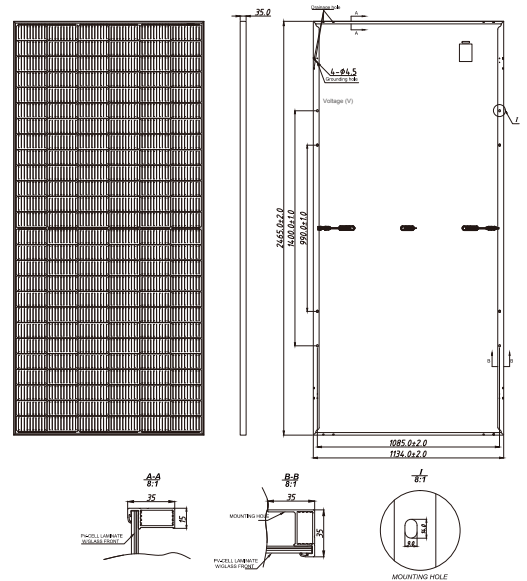
## PACKING CONFIGURATION

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

## I-V CURVE



## TECHNICAL DRAWINGS



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