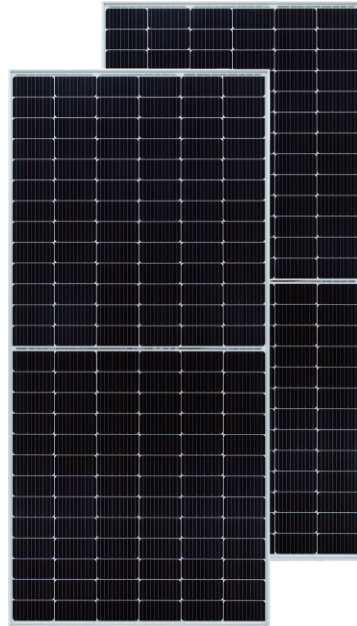


# BISTAR

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

**570 - 590W**

10BB half-cut mono perc



## KEY FEATURES



### 10BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss



### Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



### Lower LCOE

2% more power generation, lower LCOE



Anti  
PID

### Excellent Anti-PID performance

2 times of industry standard Anti-PID test by TUV SUD



### IP68 junction box

High waterproof level

## SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

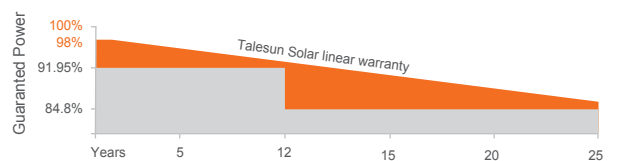


## PERFORMANCE WARRANTY

**12** years  
Quality assurance

**25** years  
Power output guarantee

■ Talesun standard  
■ Industry standard



## ELECTRICAL PARAMETERS

### Performance at STC (Power Tolerance 0 ~ +3%)

Maximum Power (Pmax/W)	570	575	580	585	590
Operating Voltage (Vmpp/V)	44	44.2	44.4	44.6	44.8
Operating Current (Impp/A)	12.96	13.01	13.07	13.12	13.17
Open-Circuit Voltage (Voc/V)	52.9	53.1	53.3	53.5	53.7
Short-Circuit Current (Isc/A)	13.69	13.75	13.81	13.87	13.94
Module Efficiency $\eta$ m(%)	20.3	20.5	20.7	20.9	21.0

### Performance at NMOT

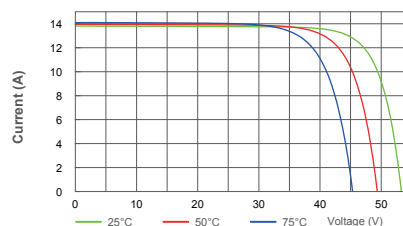
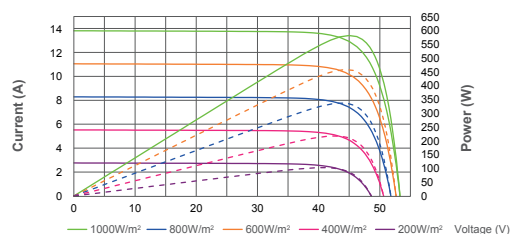
Maximum Power (Pmax/W)	420.2	423.7	427.6	431.1	434.6
Operating Voltage (Vmpp/V)	41.1	41.3	41.4	41.6	41.8
Operating Current (Impp/A)	10.22	10.27	10.32	10.36	10.41
Open-Circuit Voltage (Voc/V)	49.4	49.6	49.8	50.0	50.2
Short-Circuit Current (Isc/A)	11.04	11.08	11.13	11.18	11.23

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

## MECHANICAL SPECIFICATION

Cell Type	Mono-Crystalline Silicon (10Busbar)
Cell Dimensions	182*182mm (7inches)
Cell Arrangement	156 (6*26)
Weight	31.5kg (69.45lbs.)
Module Dimensions	2472*1135*35mm (97.32*44.68*1.38inches)
Cable Length (Portrait)	(+)300mm (11.81inches) / (-)300mm (11.81inches)
Cable Length (Landscape)	(+)1200mm (47.24inches) / (-)1200mm (47.24inches)
Cable Cross Section Size	4mm <sup>2</sup> (0.006inches <sup>2</sup> )
Front Glass	3.2mm (0.13inches) High Transmission, Tempered AR Glass
No. of Bypass Diodes	3/6
Packing Configuration	31pcs/carton, 558pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

## I-V CURVE



## OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
Static Loading	5400pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

## TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C

## TECHNICAL DRAWINGS

