

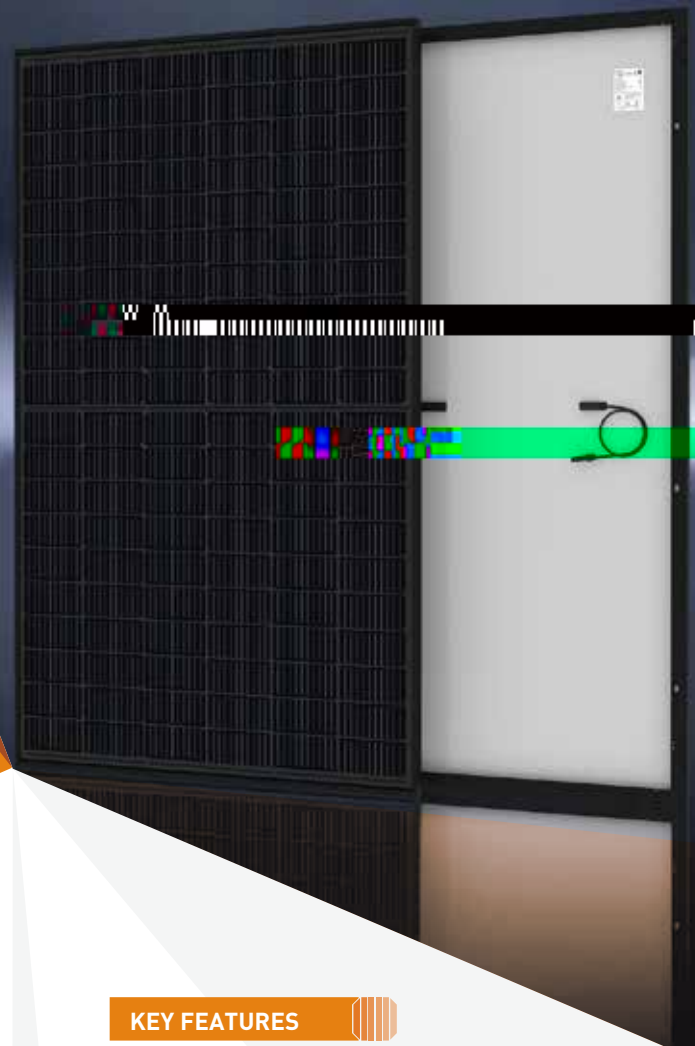


# BISTAR

TP7F60M  
TP7F60M(H) **120-cell**

440 - 460W

10BB Half-cut Mono Perc  
Full Black



## 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

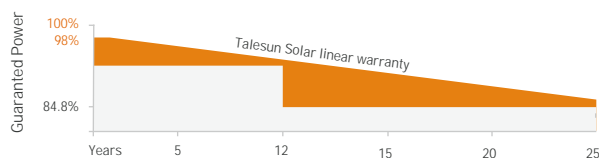


## PERFORMANCE WARRANTY

12 Years  
Quality Assurance

25 Years  
Power Output Guarantee

Linear 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)										
Operating Voltage (Vmpp/V)										
Operating Current (Impp/A)										
Open-Circuit Voltage (Voc/V)										
Short-Circuit Current (Isc/A)										
Module Efficiency (%)										

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

Cell Type	Monocrystalline Silicon (10Busbar)
No. of Cells	120pcs in series (6*20)
Module Dimensions	1908*1134*35mm (75.12*44.65*1.38inches)
Weight	24.3kg (53.6lbs.)
Front Glass	
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL) 300mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	
Temperature Coefficient of Voc	
Temperature Coefficient of Isc	
Nominal Module Operating Temperature(NMOT)	

