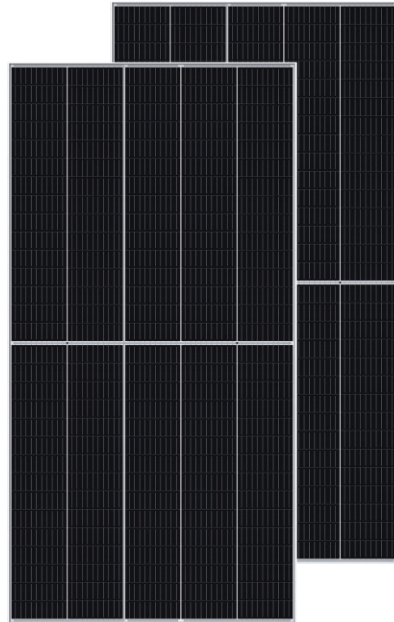


BISTAR

TP8Q50M
TP8Q50M(H) **150 cell**

485 - 505W

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

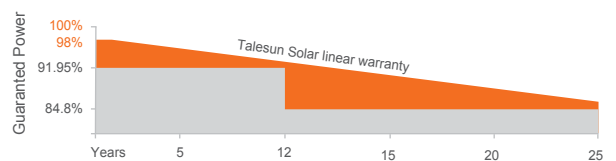


PERFORMANCE WARRANTY

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)	485	490	495	500	505
Operating Voltage (Vmpp/V)	42.3	42.5	42.7	42.9	43.1
Operating Current (Impp/A)	11.47	11.53	11.60	11.66	11.72
Open-Circuit Voltage (Voc/V)	51.0	51.2	51.4	51.6	51.8
Short-Circuit Current (Isc/A)	12.10	12.17	12.24	12.31	12.38
Module Efficiency $\eta_m(\%)$	19.9	20.1	20.3	20.5	20.7

Performance at NMOT

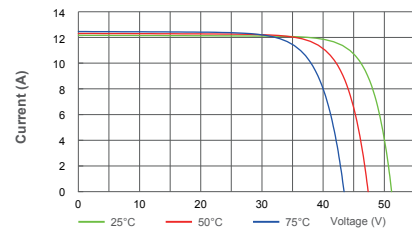
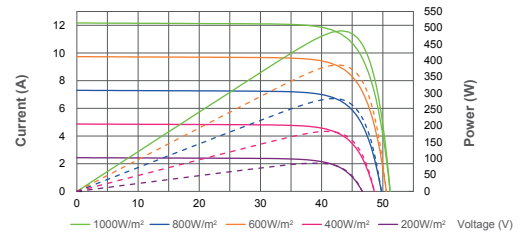
Maximum Power (Pmax/W)	357.7	361.2	365.1	368.7	372.2
Operating Voltage (Vmpp/V)	39.6	39.7	39.9	40.1	40.2
Operating Current (Impp/A)	9.04	9.09	9.15	9.20	9.25
Open-Circuit Voltage (Voc/V)	47.6	47.8	48.0	48.2	48.3
Short-Circuit Current (Isc/A)	9.76	9.82	9.88	9.93	9.99

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Mono-Crystalline Silicon (10Busbar)
Cell Dimensions	210*210mm
Cell Arrangement	150 (5*30)
Weight	28kg (61.73lbs.)
Module Dimensions	2214*1100*35mm (87.17*43.31*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 ² (0.006inches ²)
Front Glass	3.2mm (0.13inches) High Transmission, Tempered AR Glass
No. of Bypass Diodes	3/6
Packing Configuration	31pcs/carton, 620pcs/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	20A
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

