

BISTAR half-cut TP6H60P / TP6H60P(H) 280 / 285 / 290 / 295 / 300 W

High Efficiency Half-Cell Polycrystalline Solar Module
60-Cell Series



KEY FEATURES



Half-cut cell technology

New circuit design, lower internal current, lower Rs loss



Maximize limited space

More internal reflection, maximum power output 300W



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 by TUV SUD



Highly reliable due to stringent quality control

In-house testing goes well beyond certification requirements



Certified to withstand the most challenging environmental conditions

2400 Pa wind load·5400 Pa snow load·25 mm hail stones at 82 km/h



IP68 junction box

The highest waterproof level

ABOUT TALESUN SOLAR

TALESUN Solar is one of the world's largest integrated clean energy providers with 4 GW cell and 5 GW module production capacity globally. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry. Talesun Solar is committed to provide customers with customized; systematized and trustworthy turnkey solutions.

SYSTEM & PRODUCT CERTIFICATES

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



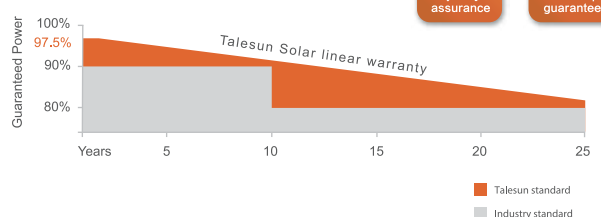
QUALITY WARRANTY

TALESUN guarantees that defects will not appear in materials and workmanship defined by IEC61215, IEC61730 or UL1703 under normal installation, use and maintenance as specified in Talesun' s installation manual for 10 years from the warranty starting date.



PERFORMANCE WARRANTY

Polycrystalline Solar Module



10 years
Quality assurance

25 years
Power output guarantee

ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 - +3%)

Maximum Power(Pmax/W)	280	285	290	295	300
Operating Voltage(Vmpp/V)	31.3	31.7	32.0	32.3	32.6
Operating Current(Imp/A)	8.95	9.00	9.07	9.14	9.21
Open-Circuit Voltage(Voc/V)	38.5	38.7	39.0	39.3	39.6
Short-Circuit Current(Isc/A)	9.57	9.65	9.73	9.81	9.89
Module Efficiency ηm(%)	16.6	16.9	17.2	17.5	17.8

Performance at NMOT

Maximum Power(Pmax/W)	208.7	212.6	216.3	220	223.8
Operating Voltage(Vmpp/V)	29	29.2	29.5	29.7	30
Operating Current(Imp/A)	7.21	7.27	7.34	7.4	7.47
Open-Circuit Voltage(Voc/V)	35.8	36	36.2	36.5	36.8
Short-Circuit Current(Isc/A)	7.74	7.8	7.87	7.93	8

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	Poly-Crystalline Silicon (5Busbar)
Cell Dimensions	158.75*158.75mm(6inches)
Cell Arrangement	60(6*10)
Weight	20.7kg(45.64lbs)
Module Dimensions	1684*1002*35mm(66.30*39.45*1.38inches)
Cable Length	300mm(11.81inches)
Cable Cross Section Size	4mm ² (0.006inches ²)
Front Glass	3.2mm High Transmission, Tempered Glass
No.of Bypass Diodes	3/6
Packing Configuration (1)	30pcs/Pallet,840pcs/40hq
Packing Configuration (2)	30pcs+5pcs/Pallet,910pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

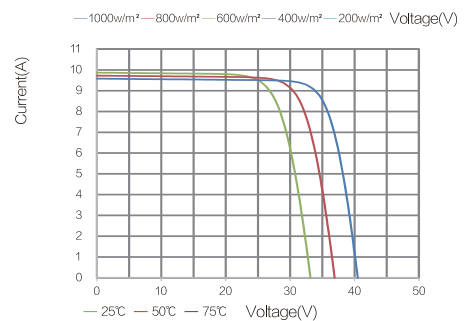
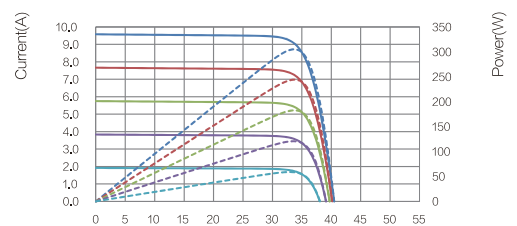
OPERATING CONDITIONS

Maximum System Voltage	1000V/DC(IEC)/1500V/DC(IEC)
Operating Temp	-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	-0.40%/°C
Temperature Coefficient Voc	-0.31%/°C
Temperature Coefficient Isc	+0.06%/°C
NMOT	43±2°C

I-V CURVE



TECHNICAL DRAWINGS

