BISTAR half-cut

TP6H60P / TP6H60P(H)

275 / 280 / 285 / 290 / 295 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 295W

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 12 years from the warranty starting date.

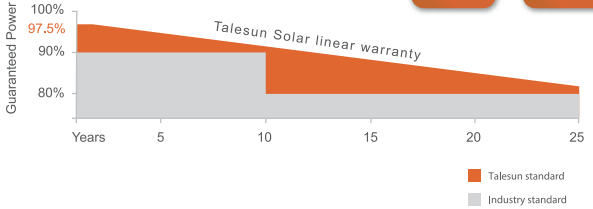
PowerGuard SPECIALTY INSURANCE SERVICES · PICC · 永诚保险 ALLTRUST INSURANCE

PERFORMANCE WARRANTY

Polycrystalline Solar Module

12 years Quality assurance

25 years Power output guarantee



TALESUN

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ELECTRICAL PARAMETERS

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

Maximum Power(Pmax/W)	275	280	285	290	295
Operating Voltage(Vmpp/V)	31.7	32.0	32.3	32.6	32.9
Operating Current(Impp/A)	8.69	8.76	8.83	8.90	8.97
Open-Circuit Voltage(Voc/V)	38.7	39.0	39.3	39.6	39.9
Short-Circuit Current(Isc/A)	9.17	9.25	9.30	9.37	9.44
Module Efficiency ηm(%)	16.6	16.9	17.2	17.5	17.8

Performance at NMOT

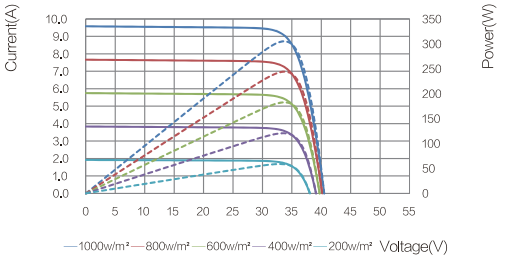
Maximum Power(Pmax/W)	205	208.6	212.3	215.9	219.5
Operating Voltage(Vmpp/V)	29.5	29.7	30.0	30.3	30.5
Operating Current(Impp/A)	6.96	7.03	7.07	7.13	7.19
Open-Circuit Voltage(Voc/V)	36.0	36.2	36.5	36.8	37.0
Short-Circuit Current(Isc/A)	7.42	7.48	7.52	7.58	7.63

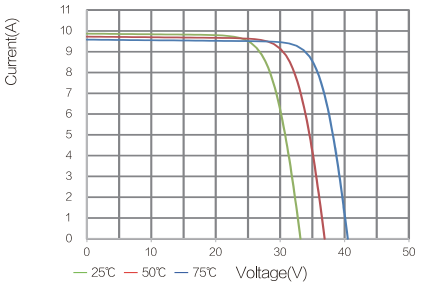
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Poly-Crystalline Silicon（5Busbar）
Cell Dimensions	156.75*156.75mm(6inches)
Cell Arrangement	120(6*20)
Weight	19.5kg(42.79lbs)
Module Dimensions	1675*992*35mm(65.94*39.06*1.38inches)
Cable Length	300mm(11.81inches)
Cable Cross Section Size	4mm²(0.006inches²)
Front Glass	3.2mm High Transmission, Tempered Glass
No.of Bypass Diodes	3/6
Packing Configuration (1)	30pcs/Pallet,780pcs/40hq
Packing Configuration (2)	30pcs+5pcs/Pallet, 845pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

I-V CURVE





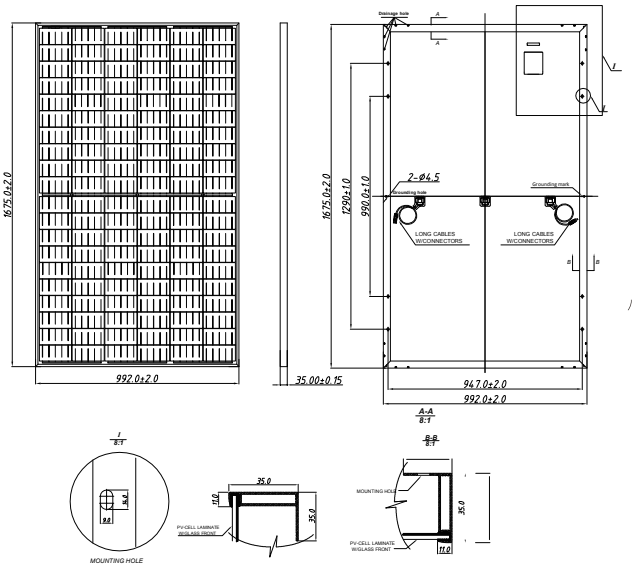
OPERATING CONDITIONS

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

TECHNICAL DRAWINGS



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