

# BISTAR half-cut TP6H60M / TP6H60M(H) 310 / 315 / 320 / 325 / 330 W

High Efficiency Half-Cell PERC Monocrystalline 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 330W



### 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



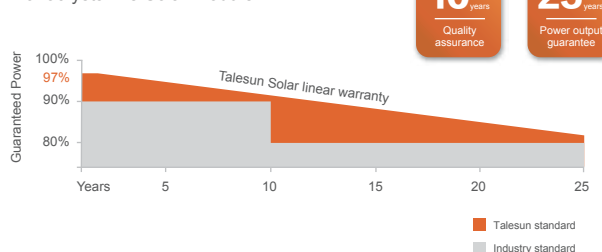
## QUALITY WARRANTY

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

Monocrystalline Solar Module



## ELECTRICAL PARAMETERS

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

Maximum Power(Pmax/W)	310	315	320	325	330
Operating Voltage(Vmpp/V)	33.5	33.9	34.3	34.7	35.2
Operating Current(Imp/A)	9.26	9.30	9.34	9.37	9.40
Open-Circuit Voltage(Voc/V)	40.1	40.3	40.5	40.7	40.9
Short-Circuit Current(Isc/A)	9.69	9.75	9.81	9.87	9.94
Module Efficiency $\eta$ (%)	18.7	19.0	19.3	19.6	19.9

### Performance at NMOT

Maximum Power(Pmax/W)	230.6	234.1	237.5	240.8	244.8
Operating Voltage(Vmpp/V)	31.3	31.5	31.7	32.0	32.3
Operating Current(Imp/A)	7.38	7.43	7.48	7.53	7.59
Open-Circuit Voltage(Voc/V)	37.3	37.5	37.6	37.8	38.0
Short-Circuit Current(Isc/A)	7.82	7.87	7.92	7.97	8.02

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 (5Busbar)
Cell Dimensions	6inches
Cell Arrangement	60(6*10)
Weight	19.5kg(42.99lbs)
Module Dimensions	1675×992×35 (65.94×39.06×1.38inches)
Cable Length	300mm(11.81inch)
Cable Cross Section Size	4mm <sup>2</sup> (0.006inches <sup>2</sup> )
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

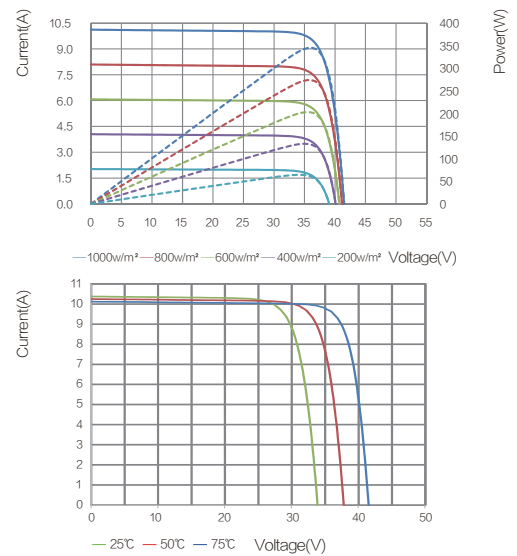
## OPERATING CONDITIONS

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	-0.39%/°C
Temperature Coefficient Voc	-0.30%/°C
Temperature Coefficient Isc	+0.05%/°C
NMOT	43±2°C

## I-V CURVE



## TECHNICAL DRAWINGS

