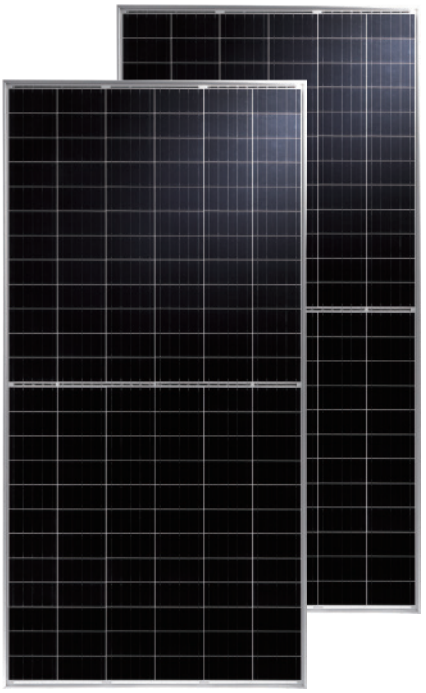
TALESUN

BISTAR

TP6H72M 144 half-cell

390 - 410W

Half-cut mono perc



KEY FEATURES

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

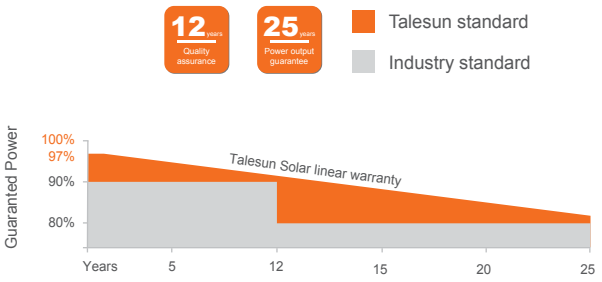
Excellent Anti-PID performance
2 times of industry standard Anti-PID test by TUV SUD

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



marketing.hq@talesun.com

Annual Module Capacity Globally: 8GW
China: 7GW
Thailand: 1GW

Talesun Solar is one of the world's largest integrated clean energy providers, who develops, manufactures and delivers highly reliable and cost-effective solar modules and integrated PV energy solutions for every application and market, for homes, businesses and utility power plants. It was ranked as one of the top 10 module suppliers in 2018, and was also listed as global TIER1 module supplier by BNEF since 2015.

ELECTRICAL PARAMETERS

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

Maximum Power (Pmax/W)	390	395	400	405	410
Operating Voltage (Vmpp/W)	40.0	40.3	40.5	40.7	40.9
Operating Current (Impp/A)	9.7	9.81	9.88	9.96	10.03
Open-Circuit Voltage (Voc/V)	48.7	49.0	49.2	49.3	49.5
Short-Circuit Current (Isc/A)	10.35	10.41	10.48	10.56	10.63
Module Efficiency ηm(%)	19.4	19.6	19.9	20.1	20.4

Performance at NMOT

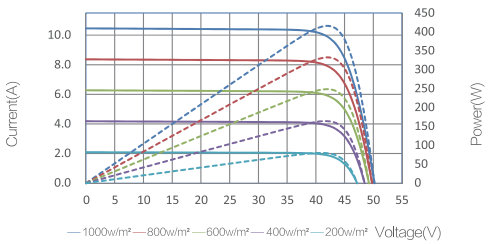
Maximum Power (Pmax/W)	290.9	294.8	298.4	302.2	305.8
Operating Voltage (Vmpp/W)	37.1	37.4	37.6	37.7	37.9
Operating Current (Impp/A)	7.93	7.88	7.94	8.01	8.07
Open-Circuit Voltage (Voc/V)	45.4	45.6	45.8	45.9	46.1
Short-Circuit Current (Isc/A)	8.35	8.4	8.46	8.52	8.58

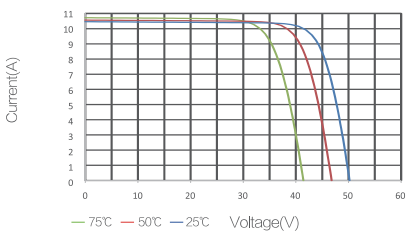
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperatue 20°C, Air Mass AM1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Mono-Crystalline Silion (5Busbar)
Cell Dimensions	158.75*158.75mm (6inches)
Cell Arrangement	144 (6*24)
Weight	22.5kg (49.06lbs)
Module Dimensions	2008*1002*35mm (79.06*39.45*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)	31pcs/carton, 682pcs/40hq
Packing Configuration(2)	31+4pcs/c arton, 726pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

I-V CURVE





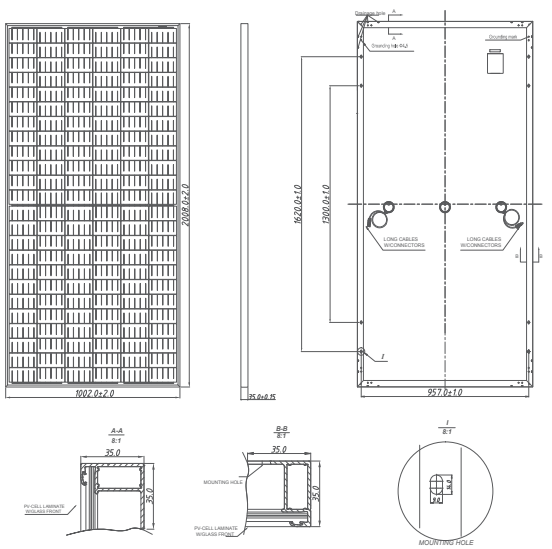
OPERATING CONDITIONS

Maximun System Voltage	1500V/DC
Operating Temperature	-40°C ~ +85°C
Maximun 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



20200415EN The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhou Talesun Solar Technologies Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

TALESUN