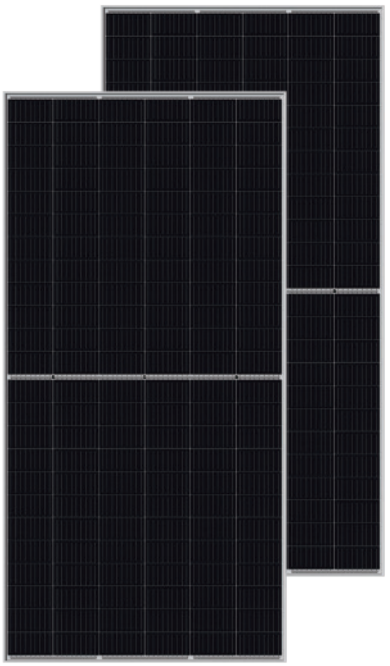
TALESUN

BIPRO

TD6G72M-XXX **144-cell**

395 - 410W

bifacial dual glass
9BB half-cut mono perc



KEY FEATURES

9BB half-cut cell technology
New circuit design, lower internal current, lower Rs loss

Industry leading high yield
Bifacial PERC cell technology,
5%-25% more yield depends on different conditions

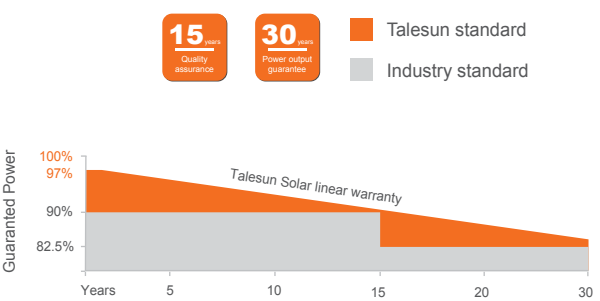
Wider application
No water-permeability and high wear-resistance,
can be widely used in high-humid, windy and dusty area

IP68 junction box
High waterproof level

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730
- 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
Made in China/Thailand

Suzhou Talesun Solar Technologies Co., Ltd.

Annual Module Capacity Globally: 10GW
China: 8GW
Thailand: 2GW

TALESUN

ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance ±3%; Binning tolerance: 0~+5W)

Maximum Power (Pmax/W)	395	400	405	410
Operating Voltage (Vmpp/V)	40.5	40.8	41.1	41.4
Operating Current (Impp/A)	9.76	9.81	9.86	9.91
Open-Circuit Voltage (Voc/V) (Tolerance ±4%)	48.7	48.9	49.1	49.3
Short-Circuit Current (Isc/A) (Tolerance ±4%)	10.29	10.33	10.37	10.41
Module Efficiency ηm(%)	19.2	19.5	19.7	20.0

Performance at NMOT

Maximum Power (Pmax/W)	294.2	298.1	301.9	305.8
Operating Voltage (Vmpp/V)	38.3	38.6	38.8	39.1
Operating Current (Impp/A)	7.68	7.72	7.77	7.82
Open-Circuit Voltage (Voc/V)	45.9	46.1	46.3	46.4
Short-Circuit Current (Isc/A)	8.28	8.35	8.35	8.38

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

Electrical characteristics with different rear side power gain (refer to 400W front)

Pmax gain	Pmax/W	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	420	40.8	10.30	48.9	10.84
10%	440	40.8	10.79	48.9	11.36
15%	460	40.8	11.28	48.9	11.87
20%	480	40.8	11.77	48.9	12.39
25%	500	40.8	12.26	48.9	12.91

MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	158.75*158.75mm
Cell Arrangement	144 (6*24)
Weight	26.8kg (59.08lbs)
Module Dimensions	2031*1011*30mm (79.96*39.8*1.18inches)
Cable Length (Portrait)	(+)300mm (11.81inches) / (-)300mm (11.81inches)
Cable Length (Landscape)	(+)1200mm (47.24inches) / (-)1200mm (47.24inches)
Cable Cross Section Size	4mm² (0.006inches²)
Front Glass	2.0mm (0.08inches) AR Coated Strengthened Glass
Back Glass	2.0mm (0.08inches) Heat Strengthened Glass (White Grid Glass)
No. of Bypass Diodes	3/6
Packing Configuration	32pcs/carton, 704pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

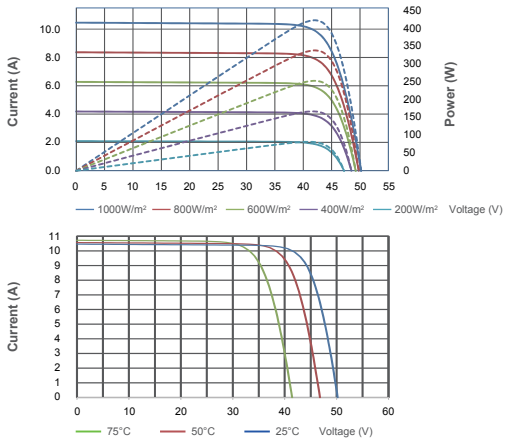
OPERATING CONDITIONS

Maximun System Voltage	1500V
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	20A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	PV-KST4-EVO2/xy-UR(male),PV-KBT4-EVO2/xy-UR(female) ; T01； LJQ-3
Fire Rating (according to UL790)	Class C
Backside Output Ratio* *Under STC: Backside Output Ratio = $P_{max(rear)}$ /$P_{max(front)}$	60% - 80%

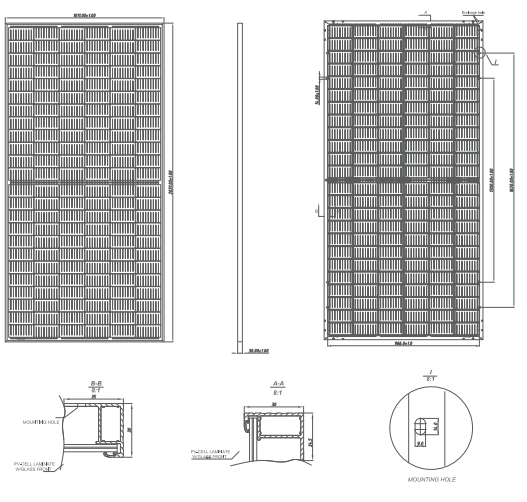
TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C

I-V CURVE



TECHNICAL DRAWINGS



TALESUN