

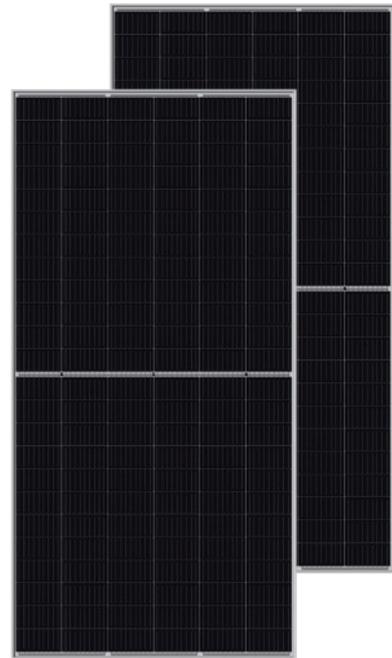
BIPRO

TD6G72M **144-cell**

385 - 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



Excellent Anti-PID performance

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



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

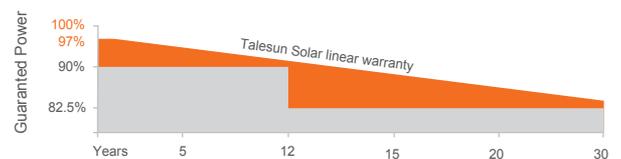


PERFORMANCE WARRANTY

12 years
Quality assurance

30 years
Power output guarantee

■ Talesun standard
■ Industry standard



ELECTRICAL PARAMETERS

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

Maximum Power (Pmax/W)	385	390	395	400	405	410
Operating Voltage (Vmpp/W)	39.9	40.2	40.5	40.8	41.1	41.4
Operating Current (Impp/A)	9.65	9.71	9.76	9.81	9.86	9.91
Open-Circuit Voltage (Voc/V)	48.3	48.5	48.7	48.9	49.1	49.3
Short-Circuit Current (Isc/A)	10.21	10.25	10.29	10.33	10.37	10.41
Module Efficiency ηm(%)	18.7	19.0	19.2	19.5	19.7	20.0

Performance at NMOT

Maximum Power (Pmax/W)	363.5	368.6	373.3	378.1	382.8	387.7
Operating Voltage (Vmpp/W)	37.7	38.0	38.3	38.6	39.0	39.3
Operating Current (Impp/A)	9.65	9.70	9.75	9.79	9.83	9.86
Open-Circuit Voltage (Voc/V)	46.1	46.3	46.4	46.6	46.8	47.0
Short-Circuit Current (Isc/A)	10.28	10.31	10.36	10.40	10.44	10.48

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

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

Pmax gain	Pmax/W	Vmpp/W	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	Half-cell 9 busbar
Cell Dimensions	158.75*158.75mm (6inches)
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	4mm ² (0.006inches ²)
Front Glass	2.0mm (0.08inches) AR Coated Strengthened Glass
Black 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

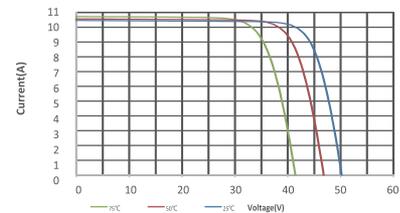
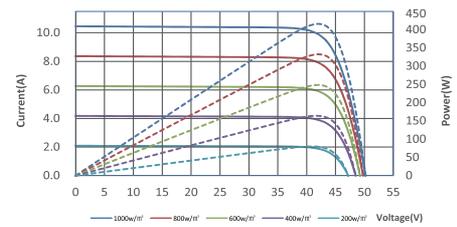
OPERATING CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	20A
Static Loading	5400pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible
Backside Output Ratio*	60% - 80%
*Under STC: Backside Output Ratio = $P_{max(rear)} / P_{max(front)}$	

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.35%/°C
Temperature Coefficient Voc	-0.25%/°C
Temperature Coefficient Isc	+0.04%/°C
NMOT	41±3°C

I-V CURVE



TECHNICAL DRAWINGS

