

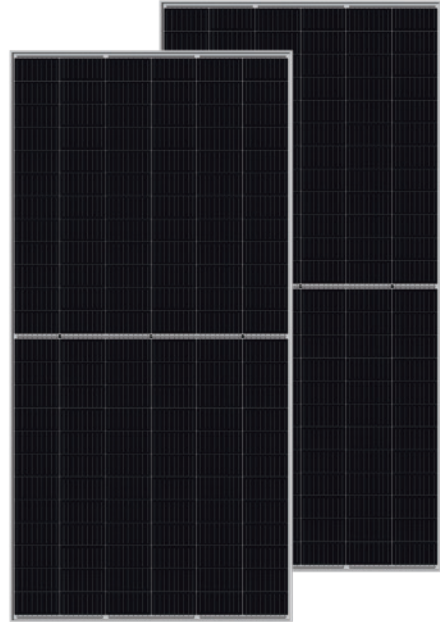
# BIPRO

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

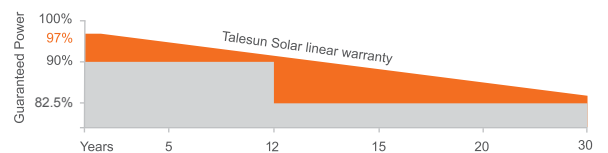


## PERFORMANCE WARRANTY

**12** years  
Quality assurance

**30** years  
Power output guarantee

- Bifacial Dual Glass Mono Solar Module Linear Performance Warranty
- Conventional Mono Solar Module Linear Performance Warranty



## ELECTRICAL PARAMETERS

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

Maximum Power(Pmax/W)	385	390	395	400	405	410
Operating Voltage(Vmpp/V)	39.9	40.2	40.5	40.8	41.1	41.4
Operating Current(Imp/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/V)	37.7	38.0	38.3	38.6	39.0	39.3
Operating Current(Imp/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/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

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

Pmax gain	Pmax/W	Vmpp/V	Imp/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	300mm(11.81inches)
Cable Cross Section Size	4mm <sup>2</sup> (0.006inches <sup>2</sup> )
Front Glass	2.0mm ( 0.08inches) AR Coated Heat 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

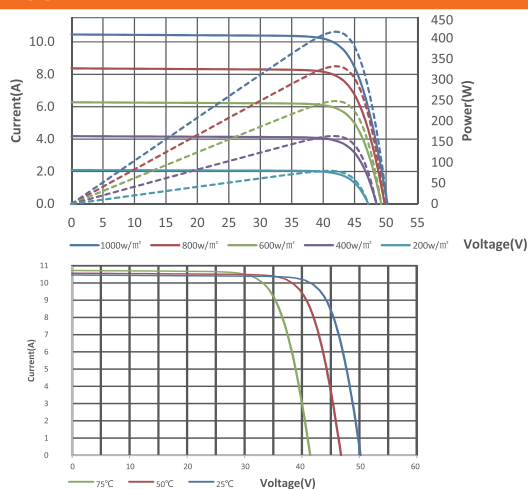
## OPERATING CONDITIONS

Maximum System Voltage	1500V/DC
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
Backside Output Ratio*	60% - 80%
*Under STC: Backside Output Ratio = $P_{\max(\text{rear})} / P_{\max(\text{front})}$	

## 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

