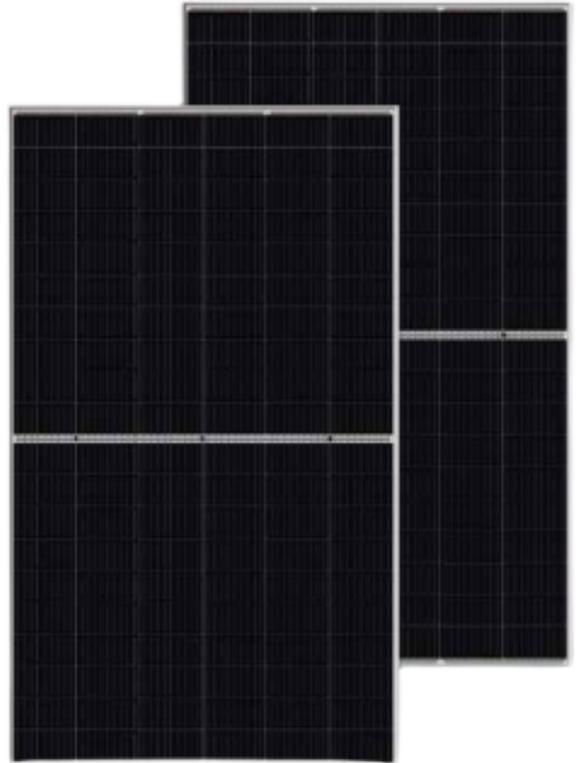


# BIPRO

## TD6G60M 120 HALF-CELL

### 320 - 340W

bifacial dual glass  
9BB half-cut mono perc



#### KEY FEATURES



#### 9BB half-cut cell technology

New circuit design, lower internal current, lower  $R_s$  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

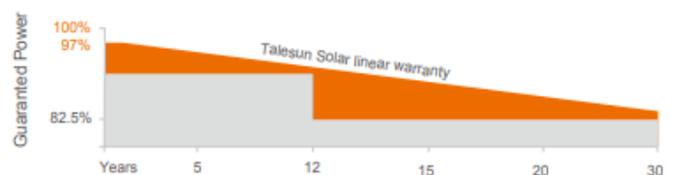


#### PERFORMANCE WARRANTY

12 years  
Quality assurance

30 years  
Power output guarantee

Linear Performance Warranty  
Standard Performance Warranty



## ELECTRICAL PARAMETERS

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

Maximum Power (Pmax/W)	320	325	330	335	340
Operating Voltage (Vmpp/V)	33.2	33.5	33.8	34.1	34.4
Operating Current (Impp/A)	9.64	9.71	9.77	9.83	9.89
Open-Circuit Voltage (Voc/V)	40.2	40.4	40.6	40.8	41.0
Short-Circuit Current (Isc/A)	10.20	10.25	10.30	10.35	10.40
Module Efficiency $\eta_m$ (%)	18.5	18.8	19.1	19.4	19.7

### Performance at NMOT

Maximum Power (Pmax/W)	302	307	311	316	321
Operating Voltage (Vmpp/V)	31.3	31.6	31.9	32.2	32.6
Operating Current (Impp/A)	9.65	9.71	9.77	9.82	9.86
Open-Circuit Voltage (Voc/V)	38.4	38.5	38.7	38.9	39.1
Short-Circuit Current (Isc/A)	10.27	10.32	10.37	10.42	10.47

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 (refer to 340W front)

Pmax gain	Pmax/W	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	357	34.4	10.38	41.0	10.92
10%	374	34.4	10.88	41.0	11.44
15%	391	34.4	11.37	41.0	11.96
20%	411	34.4	11.87	41.2	12.48
25%	428	34.4	12.36	41.2	13.00

## MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	158.75*158.75mm
Cell Arrangement	120 (6*20)
Weight	23kg (50.71lbs.)
Module Dimensions	1705*1011*30mm (67.13*39.8*1.18inches)
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> ) /UL: 12AWG
Front Glass	2.0mm (0.08 inches) AR Coating Semi-tempered Glass
Back Glass	2.0mm (0.08 inches) Glazed Semi-tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	35pcs/carton, 910pcs/40hq
Packing Configuration (for USA)	32pcs/carton, 800pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

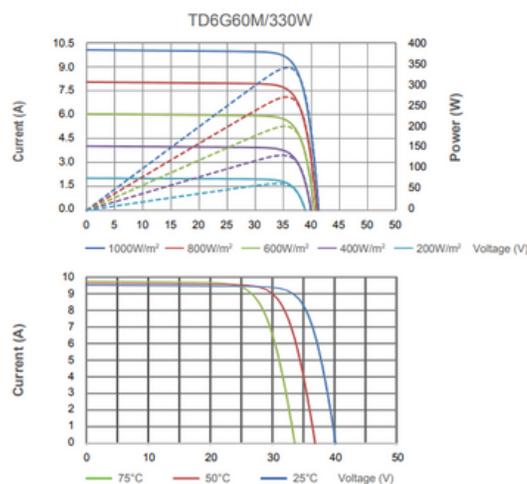
## OPERATING CONDITIONS

Maximum System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	20A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	$\leq 0.1\Omega$
Safety Class	II
Resistance	$\geq 100M\Omega$
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Backside Output Ratio*	70%+(+5% ~ -10%)
Under STC: Backside Output Ratio = Pmax(rear) / Pmax(front)	

## 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

