

# **BIPRO**

TD6G60M **120-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 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



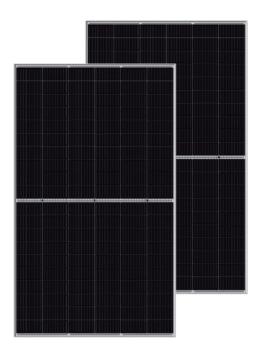
#### Wider application

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**









ELECTRICAL PARAMETERS						
Performance at STC (Power Tolerance 0 ~	+3%)					
Maximum Power (Pmax/W)	320	325	330	335	340	
Operating Voltage (Vmpp/W)	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 ηm(%)	18.56	18.85	19.14	19.43	19.72	
Performance at NMOT						
Maximum Power (Pmax/W)	302.2	307.1	311.8	316.6	321.3	
Operating Voltage (Vmpp/W)	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/m², Cell Temperature 25°C, Air Mass AM1.5	NMOT: Irradiance at 800W/m², Ambient Tem	peratue 20°C, Air I	Mass AM1.5, Wind S	peed 1m/s		

## Electrical characteristics with different rear side power gain (refer to 340W front)

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Р	max gain	Pmax/W	Vmpp/W	Impp/A	Voc/V	Isc/A
	5%	357	34.4	10.38	41	10.92
	10%	374	34.4	10.88	41	11.44
	15%	391	34.4	11.37	41	11.96
	20%	411	34.6	11.87	41.2	12.48
	25%	428	34.6	12.36	41.2	13.00

## **MECHANICAL SPECIFICATION**

Cell Type	Half-cell 9 busbar
Cell Dimensions	158.75*158.75mm (6inches)
Cell Arrangement	120 (6*20)
Weight	23kg
Module Dimensions	1705*1011*30mm (67.13*39.8*1.18inches)
Cable Length (Portrait)	(+)300mm (11.81inches) / (-)300mm (11.81inches)
Cable Length (Landsca	pe) (+)1200mm (47.24inches) / (-)1200mm (47.24inches)
Cable Cross Section Si	ze 4mm² (0.006inches²)
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, 832pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

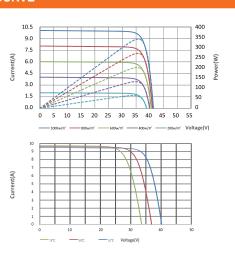
## **OPERATING CONDITIONS**

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
Backside Output Ratio* *Under STC: Backside Output Ratio = P <sub>max(rear)</sub> /P <sub>max(front)</sub>	>75%

# **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**

