

BIPRO

TP6G60M 120 half-cell

320 - 345W

bifacial transparent single 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

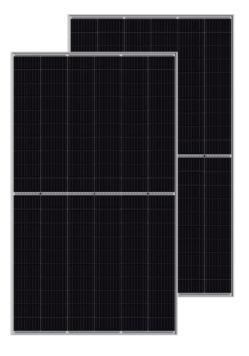


Wider application

IP68 junction box

High waterproof level

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



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



Talesun Solar is one of the world's largest integrated clean energy providers, who develops, manufactures and delivers highly reliable and cost-effective solar modules and integrated PV energy solutions for every application and market, for homes, businesses and utility power plants. It was ranked as one of the top 10 module suppliers in 2018, and was also listed as global TIER1 module supplier by BNEF since 2015.

ELECTRICAL PARAMETERS							
Performance at STC (Power Tolerance 0 ~	+3%)						
Maximum Power (Pmax/W)	320	325	330	335	340	345	
Operating Voltage (Vmpp/W)	34.1	34.4	34.7	35.0	35.3	35.6	
Operating Current (Impp/A)	9.39	9.45	9.51	9.57	9.63	9.69	
Open-Circuit Voltage (Voc/V)	40.5	40.7	40.9	41.1	41.3	41.6	
Short-Circuit Current (Isc/A)	9.89	9.95	10.01	10.07	10.13	10.2	
Module Efficiency ηm(%)	18.6	18.9	19.2	19.5	19.8	20	
Performance at NMOT							
Maximum Power (Pmax/W)	239.2	242.6	246.1	249.6	253.1	256.8	
Operating Voltage (Vmpp/W)	31.8	32.0	32.3	32.5	32.7	33.0	
Operating Current (Impp/A)	7.52	7.58	7.63	7.68	7.73	7.78	
Open-Circuit Voltage (Voc/V)	37.9	38.1	38.2	38.4	38.6	38.9	
Short-Circuit Current (Isc/A)	7.98	8.02	8.07	8.12	8.17	8.23	
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5	NMOT: Irradiance at 800W/m ² , Ambient Terr	peratue 20°C, A	Air Mass AM1.5,	Wind Speed 1r	n/s		

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

Electrical characteri	ouoo mar amoronero	ai olde powel gain (ie			
Pmax gain	Pmax/W	Vmpp/W	Impp/A	Voc/V	Isc/A
5%	357	35.3	10.1	41.3	10.6
10%	375	35.3	10.6	41.3	11.1
15%	391	35.3	11.1	41.3	11.6
20%	408	35.3	11.6	41.3	12.2
25%	405	35.3	12.0	41.3	12.7

MECHANICAL SPECIFICATION

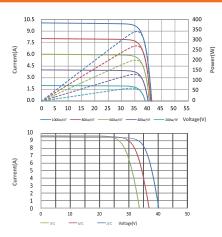
Cell Type	Half-cell 9 busbar
Cell Dimensions	158.75*158.75mm (6inches)
Cell Arrangement	120 (6*20)
Weight	21.5kg (47.4lbs)
Module Dimensions	1704*1008*35mm (67.08*39.68*1.38inches)
Cable Length	(+)500mm (19.69inches) / (-)500mm (19.69inches)
Cable Cross Section Siz	ze 4mm ² (0.006inches ²)
Front Glass	3.2mm High Transmission, Tempered Glass
Black Glass	2.0mm (0.08inches) Heat Strengthened Glass (White Grid Glass)
No. of Bypass Diodes	3/6
Packing Configuration(1) 31pcs/carton, 806pcs/40hq
Packing Configuration(2) 31+3pcs/carton, 845pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

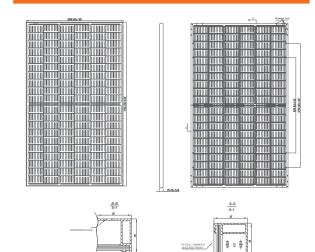
Maximun System Voltage	1500V/DC
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	25A
Static Loading	5400pa
Conductivity at Ground	≤0.1Ω
Safety Class	11
Resistance	≥100MΩ
Connector	MC4 Compatible
Backside Output Ratio* *Under STC: Backside Output Ratio = P _{max(rear)} /P _{max(front)}	60% - 80%

TEMPERATURE COEFFICIENT	
Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	42±2°C

I-V CURVE



TECHNICAL DRAWINGS



TALESUN

20200415EN The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhoù Talesun Solar Technologies Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.