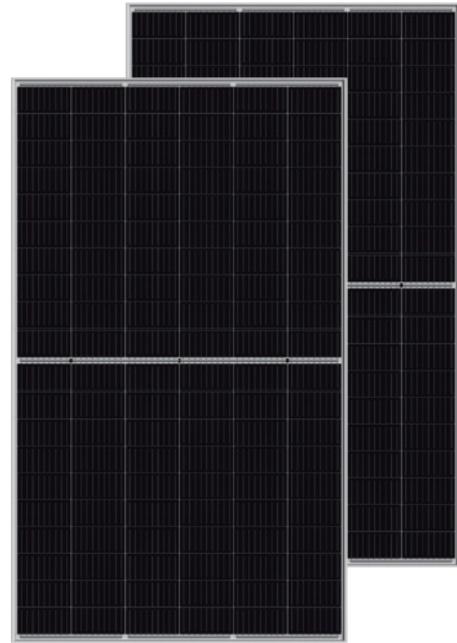


BIPRO

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

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

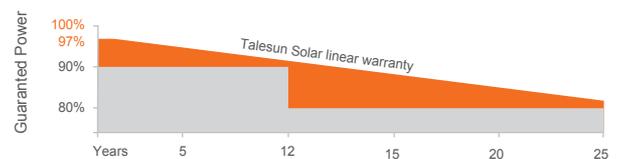


PERFORMANCE WARRANTY

12 years
Quality assurance

25 years
Power output guarantee

■ Talesun standard
■ Industry standard



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/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

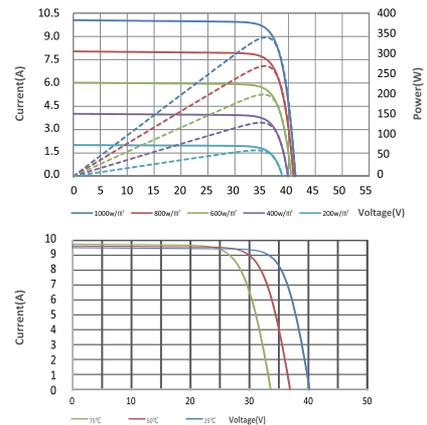
Electrical characteristics with different rear side power gain (refer to 340W front)

Pmax gain	Pmax/W	Vmpp/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 Size	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

I-V CURVE



OPERATING CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
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	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	42±2°C

TECHNICAL DRAWINGS

