

# SOLAR PANEL

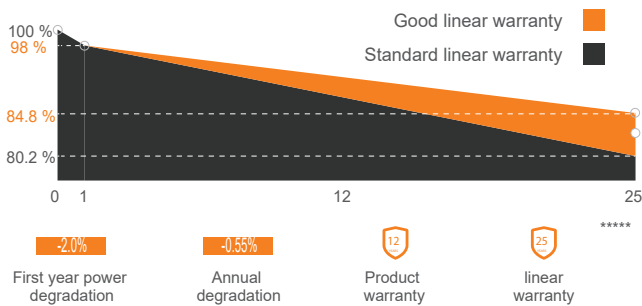
## BIFACIAL MODULE

**GP550W#PVBN**

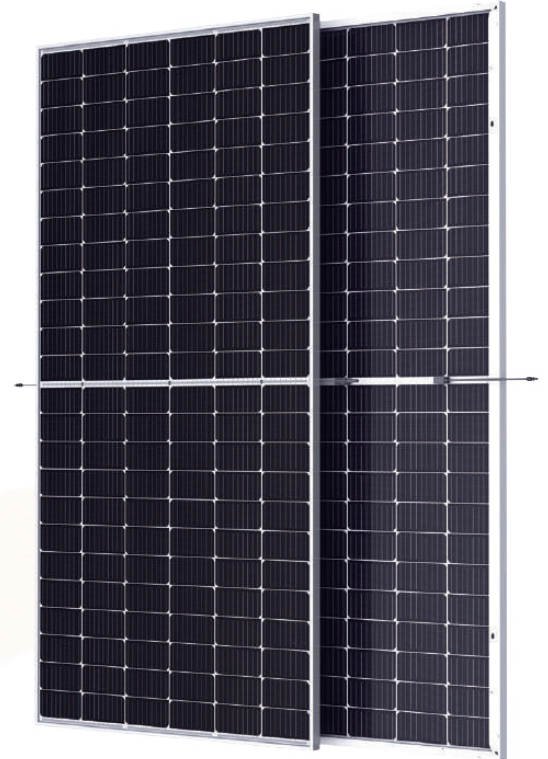
**550 Watt**

BIFACIAL MODULE

Industry-leading Warranty based on nominal power



**Module efficiency(%)**  
**( 21.3% )**



## Features



### High module conversion efficiency

Module efficiency up to 21.3% achieved through advanced cell technology and manufacturing process



### Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



### current sorting process

Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



### Extended wind and snow load tests

Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) \*



### Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



### Withstanding harsh environment

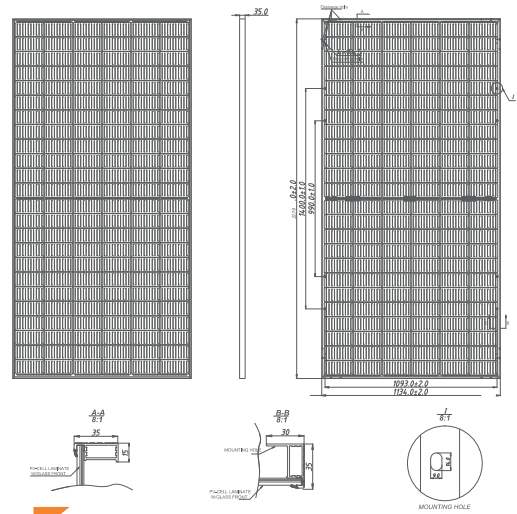
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

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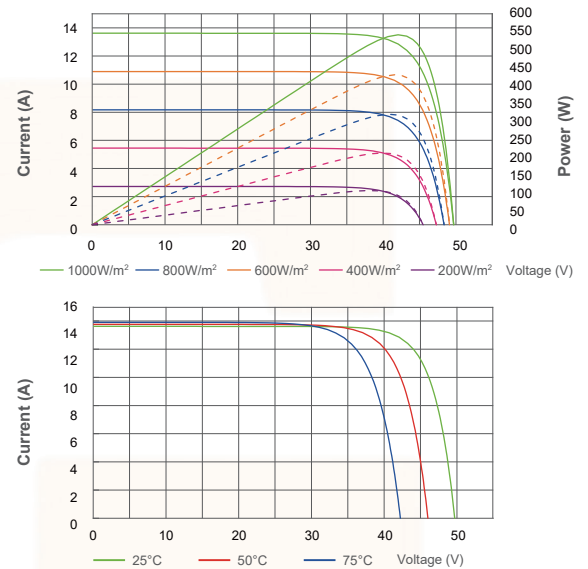
## BIFACIAL MODULE

### MECHANICAL SPECIFICATIONS

Cell Type	Monocrystalline
Cell Dimensions	182*182mm
Cell Arrangement	144 (6*24)
Weight	32.2kg (71lbs.)
Module Dimensions	2278*1134*30 mm (89.7*44.6*1.4 inches)
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)	36pcs/carton, 720pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68



### CURVE & TEMPERATURE DEPENDENC



### MAXIMUM RATINGS

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Backside Output Ratio*	70% ± 5%

\*Under STC: Backside Output Ratio = Pmax(rear)/Pmax(front)

### TEMPERATURE CHARACTERISTICS

NMOT Temperature	43°C ± 2°C
Temperature Coefficient (Pmax)	-0.36%/°C
Temperature Coefficient (Voc)	-0.26%/°C
Temperature Coefficient (Isc)	0.043%/°C

### ELECTRICAL SPECIFICATIONS

Module Type	GP550W#PVBN	
	STC	NMOT
Testing Condition	STC	NMOT
Rated output (Pmp/Wp)	550	415
Maximum Power Voltage(Vmpp/V)	42.1	38.9
Maximum Power Current(Imp/A)	13.08	10.67
Open Circuit Voltage(Voc/V)	49.9	46.9
Short Circuit Current(Isc/A)	14.01	11.22
Module efficiency(%)	21.3%	
Power Tolerance (W)	0~+5	

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