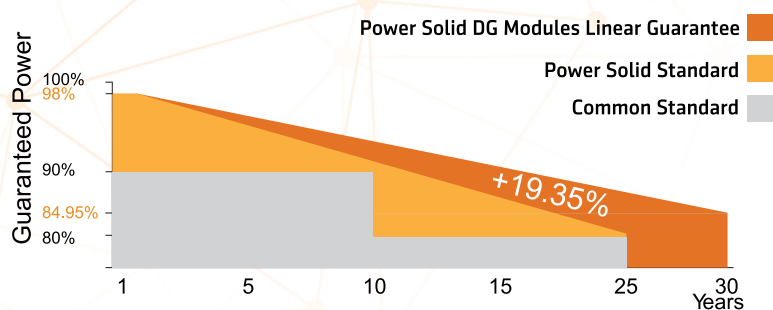


BIFACIAL SOLAR PANEL

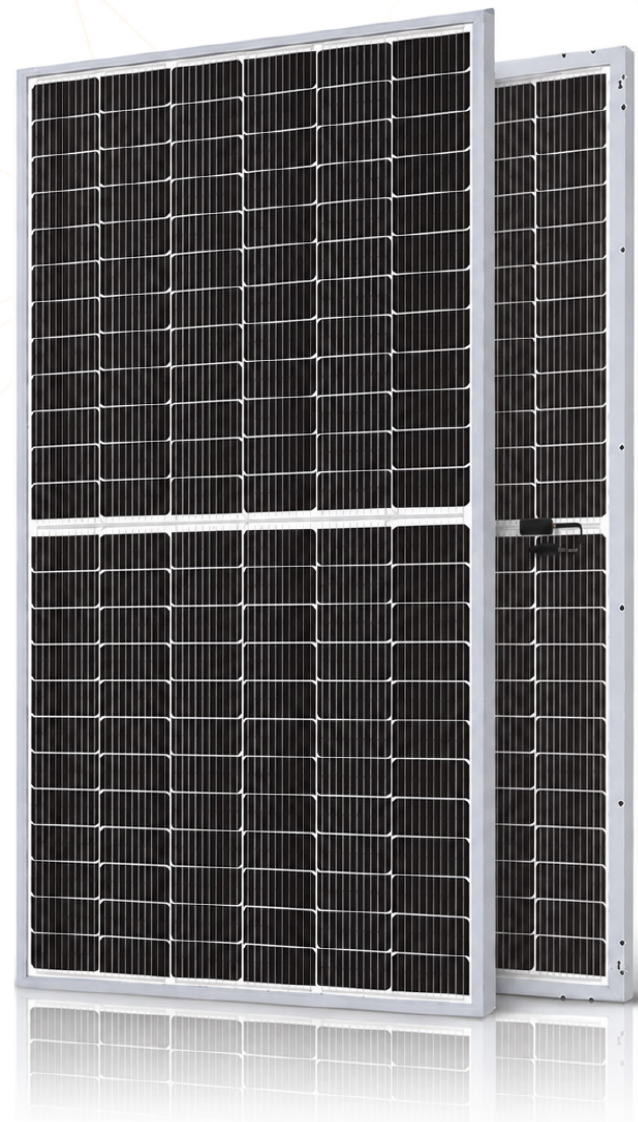
PS545W#BPVPS

545W



*Please check the valid version of Limited Product Warranty which is officially released by Power Solid

10BB HALF-CELL Bifacial Double Glass Monocrystalline PERC PV Module



Features



Excellent Cells Efficiency

MBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



TIER 1

Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.



Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



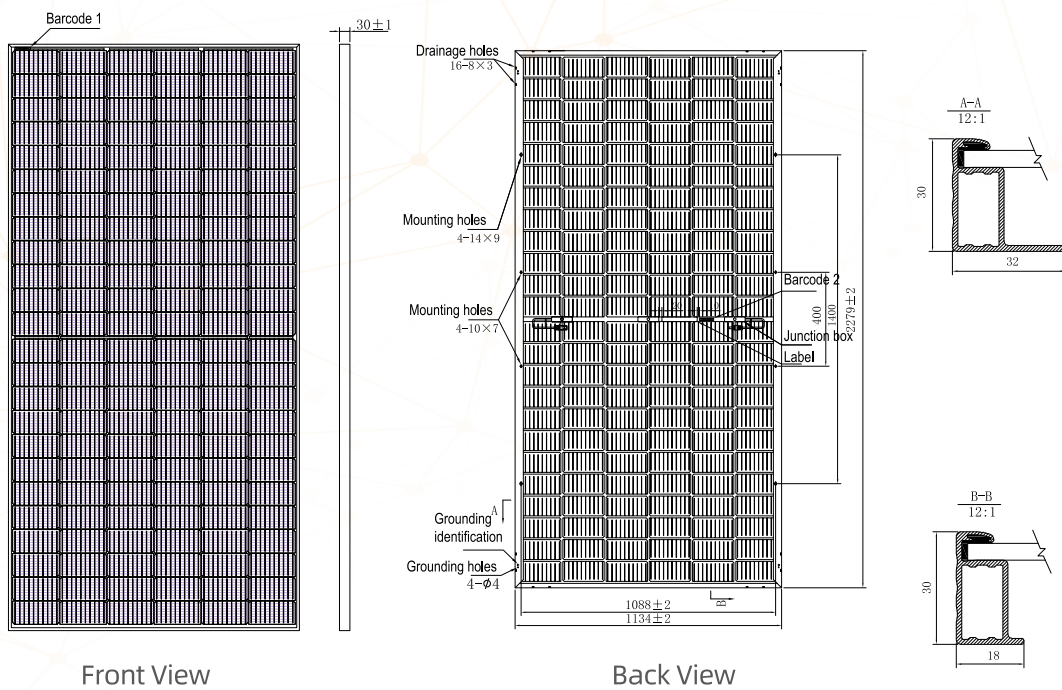
Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.

MAXIMUM EFFICIENCY **21.48%**

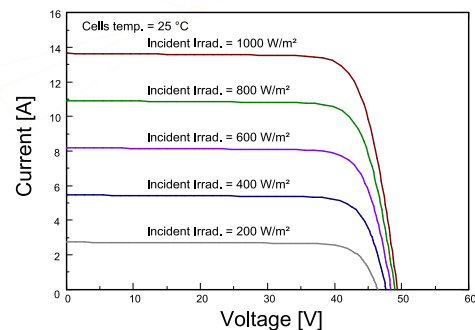
YEARLY DEGRADATION **0.45%**

DIMENSIONS OF PV MODULE (mm)

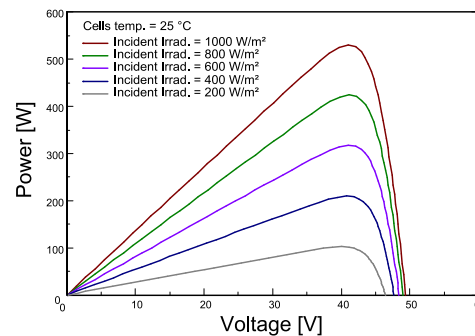


*Remark: customized frame color and cable length available upon request

I-V CURVES OF PV MODULE (530W)



P-V CURVES OF PV MODULE (530W)



ELECTRICAL CHARACTERISTICS | STC

Nominal Power Watt Pmax(W)*	545
*(Power selection: 0~+5W)	
Maximum Power Voltage Vmp(V)	41.70
Maximum Power Current Imp(A)	13.07
Open Circuit Voltage Voc(V)	50.00
Short Circuit Current Isc(A)	13.83
Module Efficiency (%)	21.09

*The data above is for reference only and the actual data is in accordance with the practical testing

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5

*Measuring uncertainty: ±3%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.

MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	144 (6×24)
Module dimension	2279×1134×30 mm (With Frame)
Weight	31.5±1.0 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm² ,350 mm (With Connectors)
Connectors*	MC4-compatible

*Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT

Maximum Power Pmax(Wp)	406.80
*(Power selection: 0~+5W)	
Maximum Power Voltage Vmpp(V)	38.80
Maximum Power Current Imp(A)	10.49
Open Circuit Voltage Voc(V)	46.70
Short Circuit Current Isc(A)	11.17

*NMOT:Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C
Refer.Bifacial Factor	70±10%

*Remark:Do not connect Fuse in Combiner Box with two or more strings in parallel connection

WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	30 A
Front Side Maximum Static Loading	Up to 5400Pa
Rear Side Maximum Static Loading	Up to 2400Pa

ELECTRICAL CHARACTERISTICS WITH 25% REAR SIDE POWER GAIN

Front power Pmax/W	545
Total power Pmax/W	681
Vmp/V(Total)	41.80
Imp/A(Total)	16.30
Voc/V(Total)	50.10
Isc/A(Total)	17.25

*Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

PACKAGING CONFIGURATION

Piece/Box	36
Piece/Container(40'HQ)	720

*Customized packaging is available upon request.

*Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

*Caution:Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.