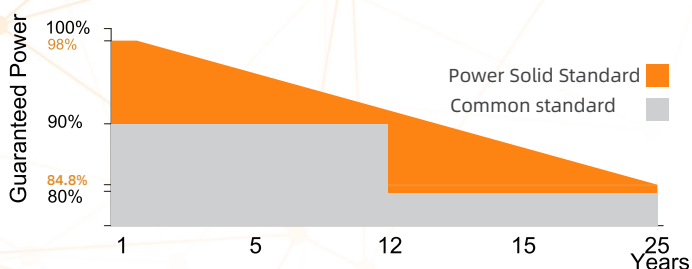


BIFACIAL SOLAR PANEL

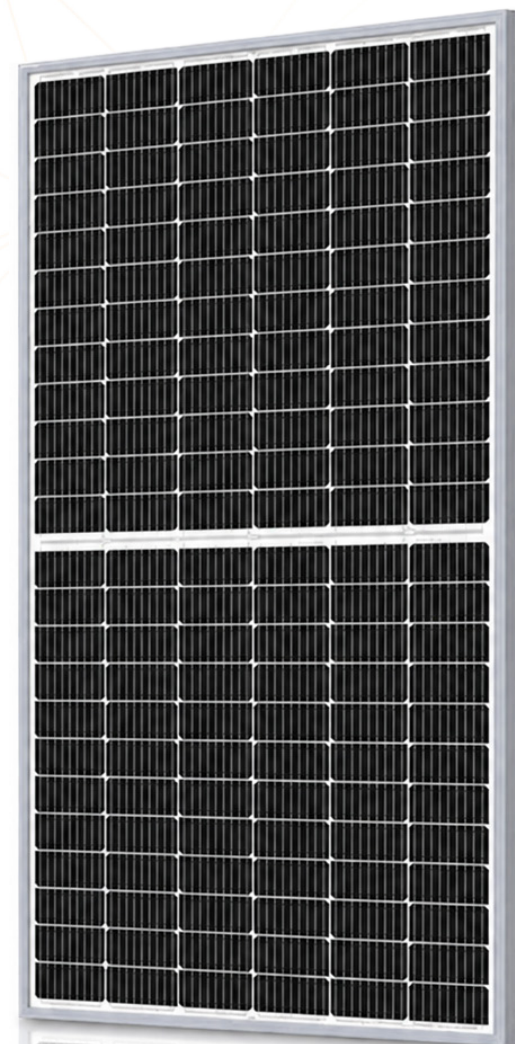
PS455W#PVPS

455w



*Please check the valid version of Limited Product Warranty which is officially released by power solid

19BB HALF-CELL Monocrystalline PERC PV Module



Features



Excellent Cells Efficiency

9BB 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.

MAXIMUM EFFICIENCY 21.16%

YEARLY DEGRADATION 0.55%



Better Weak Illumination Response

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



Adapt To Harsh Outdoor Environment

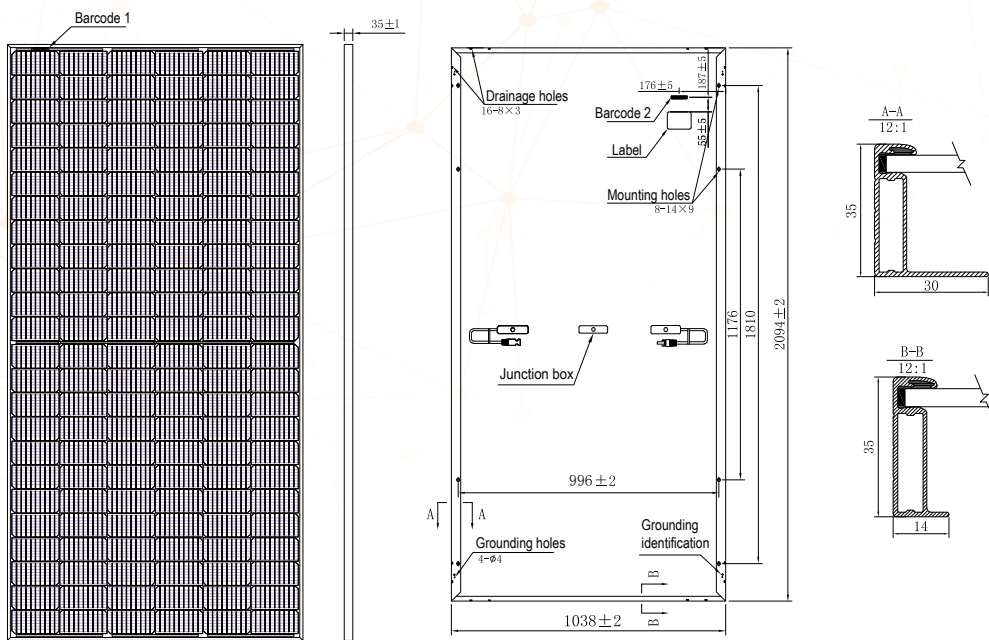
Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.

DIMENSIONS OF PV MODULE (mm)

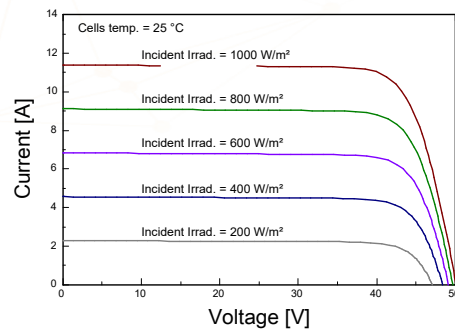


Front View

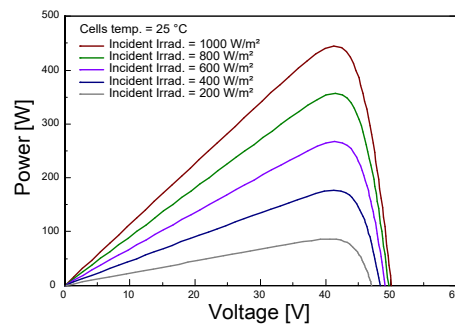
Back View

*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)*	435	440	445	450	455	460
Maximum Power Voltage Vmp(V)	40.80	41.00	41.20	41.40	41.60	41.80
Maximum Power Current Imp(A)	10.67	10.74	10.81	10.87	10.94	11.01
Open Circuit Voltage Voc(V)	49.70	49.90	50.10	50.30	50.50	50.70
Short Circuit Current Isc(A)	11.26	11.33	11.40	11.46	11.53	11.60
Module Efficiency (%)	20.01	20.24	20.47	20.70	20.93	21.16

*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	2094×1038×35 mm (With Frame)
Weight	23.5 ±1.0 kg
Glass	3.2mm, High Transmission, AR Coated Tempered 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)	325.20	328.90	332.70	336.10	339.80	343.60
Maximum Power Voltage Vmpp(V)	38.10	38.20	38.40	38.60	38.80	39.00
Maximum Power Current Impp(A)	8.54	8.60	8.66	8.70	8.76	8.81
Open Circuit Voltage Voc(V)	46.40	46.60	46.70	46.90	47.10	47.30
Short Circuit Current Isc(A)	9.09	9.15	9.21	9.25	9.31	9.37

*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	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Front Side Maximum Static Loading	Up to 5400 Pa

Packaging Configuration

Piece/Box	31
Piece/Container(40'HQ)	682

*Customized packaging is available upon request.