

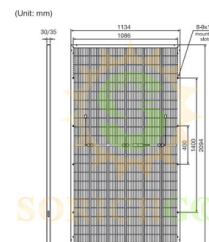


PB490 P-type Bifacial Monocrystalline Silicon Panels for Utility-Scale Installations

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: IEC 61215/IEC 61730/ISO 9001/ISO 14001/ISO 45001
- Model Number: PB490
- Minimum Order Quantity: 806 pcs
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



LS-182 P-type Bifacial Module 490W-505W

Product Specification

- Power Range: 490W ~ 505W
- Maximum Efficiency: 21.27%
- Power Output Tolerance: 0W ~ +5W
- Open Circuit Voltage (Voc): 45.62V
- Short Circuit Current (Isc): 13.99A
- Dimensions: 2094mm X 1134mm X 35mm
- Weight: 29.4kg (35mm Frame)
- Temperature Coefficient (Pmax): -0.34%
- Highlight: **bifacial monocrystalline silicon panels,
bifacial monocrystalline silicon solar panels**

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Product Description

PB490 P-type Bifacial Monocrystalline Silicon Panels for Utility-Scale Installations

182 P-type Bifacial Module



Power Range

490W ~ 505W



Power Output Tolerance

0W ~ +5W



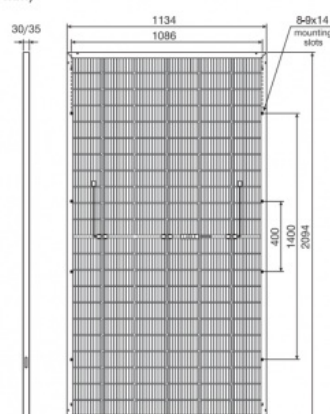
Maximum Efficiency

21.27%



Double sides power output to reach higher comprehensive efficiency and get more profit.

(Unit: mm)



Product Description:

The 182 P-type Bifacial Module offers an advanced solution for solar power generation, designed for those seeking high efficiency and durability. This module features a power range of 490W to 505W, with a maximum efficiency of 21.27%, making it ideal for various large-scale installations. It is equipped with 182mm Mono-crystalline Half Cells, arranged in a 132 pcs (6x22) configuration, ensuring excellent power output and performance. The bifacial nature of the module allows for energy capture on both sides, significantly increasing the overall energy yield. Built with a sturdy anodized aluminum alloy frame and IP68 rated junction box, this module is engineered to withstand harsh environments while maintaining optimal performance. Its slim and robust structure, combined with a 1500V DC maximum system voltage, ensures that the module can handle high-stress conditions without compromising safety or efficiency. The bifacial module also benefits from advanced anti-reflective coating and highly transparent tempered glass, contributing to its high performance and long-term reliability.

Electrical Performance Parameters STC					
Model Type		490D(H BD) 66(182)	495D(H BD) 66(182)	500D(H BD) 66(182)	505D(H BD) 66(182)
Nominal Max.Power	Pmax (W	490	495	500	505
Max.PowerVoltage	Vmp(V)	38.02	38.20	38.38	38.56
Max.PowerCurrent	Imp(A)	12.89	12.96	13.03	13.10
Open Circuit Voltage	Voc(V)	45.24	45.36	45.48	45.62
Short Circuit Current	sc(A)	13.78	13.85	13.92	13.99
Module Efficiency	(%)	20.64	20.85	21.06	21.27
Power Output Tolerance	(W)	0~+5W			
·STC:Irradiance 1000W/m²,Cell Temperature 25°C,AirMass AM1.5.					
·Power measurement tolerance ±3%.					
Electrical Performance Parameters NMOT					
Model Type		490D(H BD) 66(182)	495D(H BD) 66(182)	500D(H BD) 66(182)	505D(H BD) 66(182)
Nominal Max.Power	Pmax (W	362	367	372	377
Max.Power Voltage	Vmp(V)	34.81	35.16	35.50	35.84
Max.PowerCurrent	Imp(A)	10.40	10.44	10.48	10.52
Open Circuit Voltage	Voc(V)	42.94	43.06	43.18	43.32
Short Circuit Current	sc(A)	11.13	11.19	11.24	11.30
·NMOT:Irradiance 800W/m²,Cell Temperature 20°C,Wind Speed 1m/s.					
*Power measurement tolerance ±3%.					

Structure Performance		
Solar Cell Type	182mm Mono-crystalline (Half Cell)	
Solar Cell Arrangement	132pcs(6×22)	
Module Dimension	2094×1134×35mm/30mm	
Weight	29.4kg(35mm)/28.4kg(30mm)	
Front Glass	2.0mm,highly transparenttempered glass with anti-reflective coating	
Frame	Anodized Aluminum Alloy	
Junction Box	IP68 rated	
Cable	4mm²,portrait 200mm(1),landscape Length can be customized	1400m m(+) 1400m m(-)
DiodeQuantity	3 pcs	
Front side/Rear side	5400pa/2400pa	
Connector	MC4 Compatible	
Per Pallet	31pcs(35mm)/36pcs(30mm)	
Per Container(40'HQ)	682pcs(35mm)/792pcs(30mm)	

Temperature Characteristics	
Nominal Module Operating Temperature	44±2°C
Temperature Coefficient (Isc)	+0.048%
Temperature Coefficient (Voc)	-0.26%
Temperature Coefficient(Pmax)	-0.34%

Maximum Parameters	
Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	25A

Application:

This module is ideal for ground-mounted solar power plants, commercial rooftop systems, and utility-scale installations where maximum energy yield and reliability are critical. Its bifacial design is particularly beneficial in environments where additional light reflection can be captured, such as snow-covered areas or installations near bodies of water.

Shipping Methods:

Supports global air and sea shipping.



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