

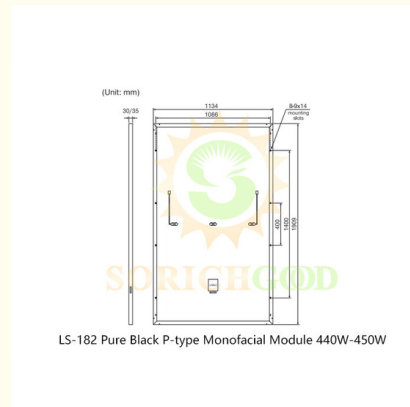


440W 182 Pure Black P-Type Monofacial Module Mono PV Solar Panels

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: PB440
- Minimum Order Quantity: 806 pcs
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Power Range: 440W ~ 450W
- Maximum Efficiency: 20.79%
- Nominal Max. Power: 450W
- Open Circuit Voltage (Voc): 41.38V
- Short Circuit Current (Isc): 13.72A
- Module Efficiency: 20.79%
- Nominal Module Operating Temperature: 44±2°C
- Maximum System Voltage: 1500V DC
- Highlight: **440W mono facial, P Type mono facial, Black monofacial**

Product Description

440W 182 Pure Black P-type Monofacial Module High-Efficiency Monocrystalline Silicon Panels

182 Pure Black P-type Monofacial Module



Power Range

440W ~ 450W



Power Output Tolerance

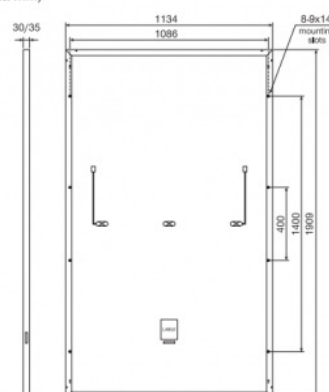
0W ~ +5W



Maximum Efficiency

20.79%

(Unit: mm)



Product Description:

The 182 Pure Black P-type Monofacial Module is designed for high-efficiency energy generation with a sleek, all-black aesthetic that complements both residential and commercial installations. With a power range of 440W to 450W and a maximum efficiency of 20.79%, this module is ideal for applications where visual appeal is as important as performance. The module features a robust anodized aluminum alloy frame, ensuring durability in various environmental conditions. Its half-cell structure enhances energy capture, making it a reliable choice for optimized power output even under partial shading.

Electrical Performance Parameters STC				
Model Type		440D(BPM) 60(182)	445D(BPM) 60(182)	450D(BPM) 60(182)
Nominal Max.Power	Pmax(W)	440	445	450
Max.Power Voltage	Vmp(V)	34.22	34.42	34.62
Max.Power Current	Imp(A)	12.86	12.93	13.00
Open Circuit Voltage	Voc(V)	40.98	41.18	41.38
Short Circuit Current	Is(A)	13.60	13.66	13.72
Module Efficiency	(%)	20.33	20.56	20.79
PowerOutput Tolerance	(W)		0~+5W	
*STC:Irradiance 1000W/m²,Cell Temperature 25°C,Air Mass AM1.5. *Power measurement tolerance ±3%.				
Electrical Performance Parameters NMOT				
Model Type		440D(BPM) 60(182)	445D(BPM) 60(182)	450D(BPM) 60(182)
Nominal Max.Power	Pmax(W)	320	325	330
Max.Power Voltage	Vmp(V)	31.24	31.44	31.64
Max.Power Current	Imp(A)	10.25	10.34	10.43
Open Circuit Voltage	Voc(V)	38.48	38.68	38.88
Short Circuit Current	Is(A)	10.77	10.97	11.17
*NMOT:Irradiance800W/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	120pcs(6×20)			
Module Dimension	1909×1134×35mm/30mm			
Weight	23.2kg(35mm)/22.1kg(30mm)			
Front Glass	3.2mm,highly transparent tempered glass with anti-reflective coating			
Back Sheet	Black			
Frame	Anodized Aluminum Alloy (Black)			
Junction Box	IP68 rated			

Cable	4mm ² ,portrait	1400mm(+)
	200mm(,landscape	1400mm (-)
Length can be customized		
Diode Quantity	3 pcs	
Front side/Rear side	5400pa/2400pa	
Connector	MC4 Compatible	
Per Pallet	31pcs(35mm)/36pcs(30mm)	
Per Container(40'HQ)	744pcs(35mm)/864pcs(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 perfect for residential rooftops, commercial buildings, and urban environments where both high energy yield and aesthetic integration are required. The all-black design allows it to blend seamlessly with modern architectural styles, making it an excellent choice for installations where appearance matters. Additionally, its enhanced temperature coefficient and high power output tolerance ensure reliable performance in a wide range of climates.

Shipping Methods

Supports global air and sea shipping.



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