

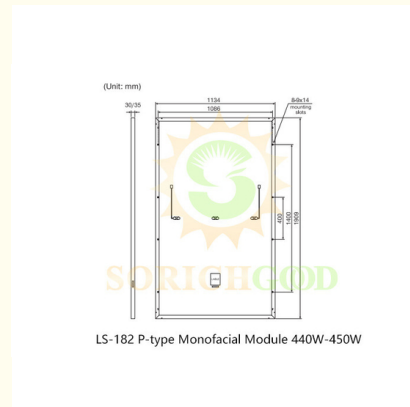


440W-455W Monocrystalline Silicon Panels High-Efficiency for Challenging Conditions

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: PM440
- Minimum Order Quantity: 806 pcs
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Power Range: 440W ~ 455W
- Maximum Efficiency: 21.02%
- Power Output Tolerance: 0W ~ +5W
- Module Dimension: 1909×1134×35mm
- Weight: 23.2kg (35mm Frame) / 22.1kg (30mm Frame)
- Temperature Coefficient (P_{max}): -0.34%
- Maximum System Voltage: 1500V DC
- Nominal Maximum Fuse Current: 25A
- Highlight: 440w monocrystalline silicon panels,
440w monocrystalline silicon solar panels,
1500v monocrystalline silicon panels

Product Description

440W-455W Monocrystalline Silicon Panels High-Efficiency for Challenging Conditions

182 P-type Monofacial Module



Power Range

440W ~ 455W



Power Output Tolerance

0W ~ +5W

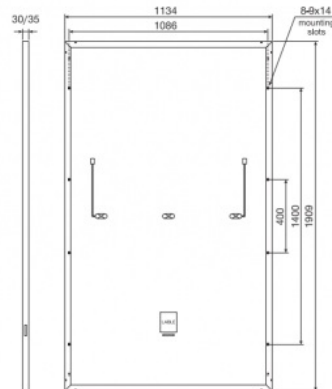


Maximum Efficiency

21.02%

* Customizable with Black Frame.

(Unit: mm)



Product Description:

The 182 P-type Monofacial Module offers an exceptional power range of 440W to 455W, designed to meet the high-efficiency needs of modern solar projects. With a maximum efficiency of 21.02%, this module is engineered to deliver superior energy output even in challenging conditions. It features an anodized aluminum alloy frame that provides robust protection, ensuring long-term durability and performance. The module's black or white frame options allow for aesthetic flexibility in various installations.

Electrical Performance Parameters STC					
ModelType		440D(HP M) 60(182)	445D(H PM) 60(182)	450D(HP M) 60(182)	455D(HP M) 60(182)
Nominal Max.Power	Pmax(W)	440	445	450	455
Max.Power Voltage	Vmp(V)	34.13	34.33	34.53	34.73
Max.Power Current	Imp(A)	12.90	12.97	13.04	13.11
Open CircuitVoltage	Voc(V)	40.92	41.12	41.32	41.52
Short Circuit Current	Isc(A)	13.76	13.83	13.90	13.97
Module Efficiency	(%)	20.33	20.56	20.79	21.02
Power Output 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(HP M) 60(182)	445D(H PM) 60(182)	450D(HP M) 60(182)	455D(HP M) 60(182)
Nominal Max.Power	Pmax(W)	320	325	330	335
Max.Power Voltage	Vmp(V)	30.77	31.08	31.37	31.67
Max.Power Current	Imp(A)	10.40	10.46	10.52	10.58
Open Circuit Voltage	Voc(V)	38.72	38.79	38.87	39.01
Short Circuit Current	Isc(A)	10.64	10.69	10.74	10.79
·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		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	White
Frame	Anodized Aluminum Alloy(White/Black)
Junction Box	IP68 rated
Cable	4mm ² ,portrait 400mm(+),landscape 1400 00(m-m (+) 200mm(-) 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 ideal for residential and commercial rooftop installations where high power output and space efficiency are critical. Its sleek design and customizable black frame option make it a preferred choice for projects requiring aesthetic integration with the building architecture. Additionally, its resilience to harsh environmental conditions ensures reliable performance in diverse climates.

Shipping Methods:

Supports global air and sea shipping.



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