

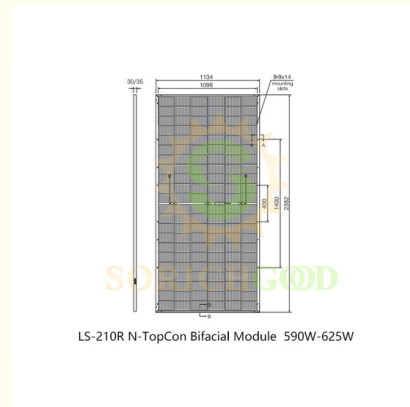


590W Advanced N-TopCon Technology Monocrystalline Silicon Panels

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: NB590
- Minimum Order Quantity: 806 pcs
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Power Range: 590W - 625W
- Maximum Efficiency: 23.14%
- Power Output Tolerance: 0W ~ +5W
- Module Dimension: 2382×1134×35mm/30mm
- Weight: 35.2kg(35mm)/33.4kg(30mm)
- Operating Temperature: -40°C ~ +85°C
- Maximum System Voltage: 1500V DC
- Nominal Maximum Fuse Current: 30A
- Highlight: **590W Monocrystalline Silicon Panels, 1500V Monocrystalline Silicon Panels, 30A monocrystalline silicon solar cells**

Product Description

590W Advanced N-TopCon Technology Monocrystalline Silicon Panels for Enhanced Performance

210R N-TopCon Bifacial Module



Power Range

590W ~ 625W

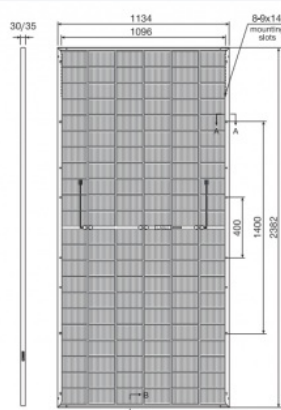
Power Output Tolerance

0W ~ +5W

Maximum Efficiency

23.14%

(Unit: mm)



Product Description

The 210R N-TopCon Bifacial Module is engineered to deliver exceptional performance with a power range of 590W to 625W, achieving a maximum efficiency of 23.14%. This module features 132 pieces of 210R N-TopCon Mono Half Cells, arranged in a 6x22 configuration, ensuring optimal energy capture and conversion. The module's structure includes a robust anodized aluminum alloy frame, a 2.0mm highly transparent tempered glass with anti-reflective coating, and an IP68 rated junction box for enhanced durability and reliability in various environmental conditions. The bifacial design allows for increased energy generation from both sides of the panel, making it ideal for applications where maximum efficiency is essential.

Electrical Performance Parameters STC	
Model Type	590C(HBD)595C(HBD)600C(HBD)605C(HBD)610C(HBD)615C(HBD)620C(HBD)625C(HBD) 66(210R)66(210R)66(210R)66(210R) 66(210R)66(210R) 66(210R)66(210R)
Nominal Max.Power Pmax(W)	590 595 600 605 610 615 620 625
Max.Power Voltage Vmp(V)	40.14 40.26 40.38 40.51 40.64 40.76 40.88 40.99
Max.Power Current Imp(A)	14.70 14.78 14.86 14.94 15.01 15.09 15.17 15.25
Open Circuit Voltage Voc(V)	48.15 48.29 48.42 48.55 48.69 48.82 48.95 49.08
Short Circuit Current Isc(A)	15.54 15.63 15.71 15.80 15.89 15.98 16.06 16.15
Module Efficiency (%)	21.84 22.03 22.21 22.40 22.58 22.77 22.95 23.14
PowerOutputTolerance (W)	0~+5W
*STC:Irradiance 1000W/m ² ,Cell Temperature 25°C,Air Mass AM1.5. *Power measurementtolerance ±3%.	
Electrical Performance Parameters NMOT	
Model Type	590C(HBD)595C(HBD)600C(HBD)605C(HBD)610C(HBD)615C(HBD)620C(HBD)625C(HBD) 66(210R)66(210B) 66(210R) 66(210R) 66(210R) 66(210R) 66(210R)66(210R)
Nominal Max.Power Pmax(W)	444 448 452 456 460 464 468 472
Max.Power Voltage Vmp(V)	37.47 37.62 37.77 37.94 38.10 38.26 38.43 38.59
Max.Power Current Imp(A)	11.85 11.91 11.97 12.02 12.08 12.13 12.18 12.24
Open Circuit Voltage Voc(V)	45.69 45.82 45.95 46.07 46.20 46.33 46.46 46.59
Short Circuit Current Isc(A)	12.54 12.60 12.68 12.75 12.82 12.89 12.96 13.03
·NMOT:Irradiance 800W/m ² ,CellTemperature 20°C,Wind Speed 1m/s. ·Power measurement tolerance ±3%.	

Structure Performance

Solar Cell Type	210R N-TopCon Mono Cell (Half Cell)			
Solar Cell Arrangement	132pcs(6x22)			
Module Dimension	2382×1134×35mm/30mm			
Weight	35.2kg(35mm)/33.4kg(30mm)			
Front Glass	2.0mm,highly transparent tempered glass with anti-reflective coating			
Frame	Anodized Aluminum Alloy			
Junction Box	IP68 rated			
Cable	4mm²,portrait	400mm(+)	landscape	1400mm(+)
		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)	558pcs(35mm)/648pcs(30mm)			

Temperature Characteristics	
Nominal Module Operating Temperature	44±2°C
Temperature Coefficient(Isc)	+0.043%
Temperature Coefficient (Voc)	-0.25%
Temperature Coefficient (Pmax)	-0.30%

Maximum Parameters	
Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	35A

Application

This high-efficiency bifacial module is perfect for large-scale solar power plants, commercial rooftop installations, and projects where space optimization and maximum energy output are critical. Its bifacial nature makes it particularly suitable for ground-mounted systems where reflected sunlight can be captured from the rear side, thereby boosting overall energy yield. With its advanced cell technology and robust construction, this module ensures long-term performance and reliability in diverse climates, including areas with high temperatures and heavy snowfall.

Shipping Methods:

Supports global air and sea shipping.



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