

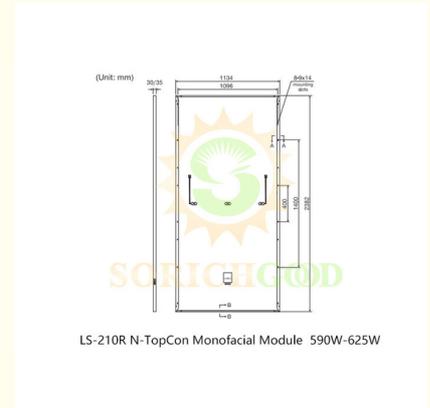


## 590W 210R N-TopCon Monocrystalline Silicon Panels For Solar Applications

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: NM590
- 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%
- Nominal Maximum Power (Pmax): 590W - 625W
- Maximum Power Voltage (Vmp): 39.92V - 41.20V
- Maximum Power Current (Imp): 14.78A - 15.40A
- Open Circuit Voltage (Voc): 47.90V - 48.83V
- Short Circuit Current (Isc): 15.62A - 16.23A
- Nominal Maximum Fuse Current: 30A
- Highlight: **590W Monocrystalline Silicon Panels, 625W Monocrystalline Silicon Panels, 30A mono silicon solar panels**

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## Product Description

590W 210R N-TopCon Monocrystalline Silicon Panels The Perfect Choice for Solar Applications

### 210R N-TopCon Monofacial Module



Power Range

**590W ~ 625W**



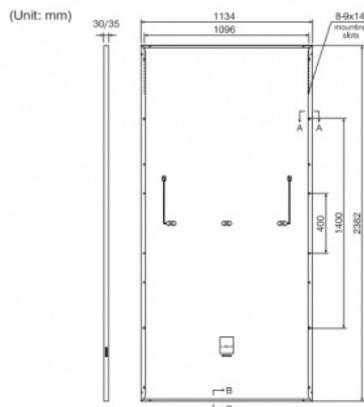
Power Output Tolerance

**0W ~ +5W**



Maximum Efficiency

**23.14%**



#### Product Description:

The 210R N-TopCon Monofacial Module is a cutting-edge solar panel designed to deliver exceptional performance and efficiency. With a power range of 590W to 625W, this module is equipped with 210R N-TopCon Mono Cells, arranged in a 132pcs (6x22) configuration, providing a maximum efficiency of up to 23.14%. The module's dimensions are 2382x1134x35mm, and it weighs 32.8kg (35mm) or 30.8kg (30mm), making it both robust and relatively lightweight for easy installation.

This module features a 3.2mm highly transparent tempered glass front with an anti-reflective coating, enhancing light absorption and durability. The anodized aluminum alloy frame ensures long-term structural integrity, while the IP68-rated junction box provides superior protection against water and dust. The module also includes 4mm<sup>2</sup> cables, available in portrait (400mm) or landscape (1400mm) orientations, which can be customized to meet specific installation needs. Additionally, it is fitted with three diodes for optimized performance in various environmental conditions.

The 210R N-TopCon Monofacial Module is designed for high-performance applications, capable of withstanding front and rear pressures of 5400pa and 2400pa, respectively. It is compatible with MC4 connectors and can be efficiently packed for shipment, with 31 pieces per pallet (35mm) or 36 pieces per pallet (30mm), and up to 648 pieces per 40' HQ container.

Electrical Performance Parameters  STC	
Model Type	590C(HPM)595C(HPM)600CHPM)605C(HPM)610C(HPM)615C(HPM)620C(HPM)625C(HPM) 66(210R)66(210R) 66(210B)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)	39.92 40.05 40.17 40.30 40.43 40.55 40.69 40.83
Max.Power Current Imp(A)	14.78 14.86 14.94 15.02 15.09 15.17 15.24 15.31
Open Circuit Voltage Voc(V)	47.90 48.04 48.17 48.30 48.44 48.57 48.70 48.83
ShortCircuit Current Isc(A)	15.62 15.71 15.79 15.88 15.97 16.06 16.14 16.23
Module Efficiency (%)	21.84 22.03 22.21 22.40 22.58 22.77 22.95 23.14
Power Output Tolerance (W)	0~+5W
*STC:Irradiance 1000W/m <sup>2</sup> ,Cell Temperature 25°C,AirMass AM1.5. *Power measurement tolerance ±3%.	
Electrical Performance Parameters  NMOT	
Mode Type	590C(HPM)595C(HPM)600C(HPM)605CHPM)610C(HPM)615C(HPM)620C(HPM)625C(HPM) 66(210R)66(210R)66(210R)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)	37.28 37.43 37.58 37.75 37.90 38.07 38.24 38.39
Max.Power Current Imp(A)	11.91 11.97 12.03 12.08 12.14 12.19 12.24 12.30
Open Circuit Voltage Voc(V)	45.45 45.58 45.71 45.83 45.96 46.09 46.22 46.35
Short Circuit Current Isc(A)	12.60 12.67 12.75 12.82 12.89 12.97 13.04 13.12

NMOT:Irradiance 800W/m <sup>2</sup> ,Cell Temperature 20°C,Wind Speed 1m/s. *Power measurement tolerance ±3%.	
Structure Performance	
SolarCell Type	210R N-TopCon Mono Cell (Half Cell)
Solar Cell Arrangement	132pcs(6×22)
Module Dimension	2382×1134×35mm/30mm
Weight	32.8kg(35mm)/30.8kg(30mm)
Front Glass	3.2mm,highly transparent tempered glass with ant-reflective coating
Back Sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm <sup>2</sup> ,portrait Length can be customized
Diode Quantity	3 pcs
Front side/Rearside	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	30A

**Application:**

This module is ideal for large-scale commercial and utility-scale solar power plants where maximum power output and efficiency are critical. It is designed to perform in various environmental conditions, making it suitable for use in both high-temperature and low-light environments. Its high power output and robust design also make it an excellent choice for installations in areas with extreme weather conditions, ensuring reliable energy production over the module's lifespan.

**Shipping Methods:**

Supports global air and sea shipping.



**RICHGOOD ENERGY CO.,LTD**



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