

N-TOPCon series

## 210 N-TOPCon Bifacial Module

560W ~ 590W



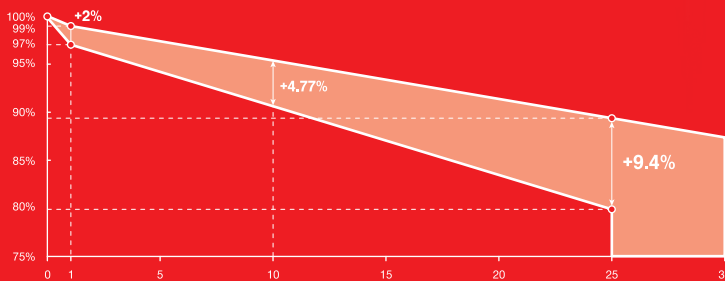
**12** years product  
workmanship warranty



**30** years linear power output  
warranty



**1%** 1st-year degradation  
**0.40%** annual degradation



Conventional LESSO Solar Module

### FEATURES AND BENEFITS



MBB Half-cut Cell Technology, high light utilization rate, better power collection capacity.



Non-destructive cutting technology, avoid the damage of cutting surface.



By series and parallel design, to reduce the series RS, achieve higher power output and decrease BOS cost.



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



High-density interconnect technology, efficiency increased by 0.2~0.3%.



Perfectly matches the container size, the system cost is reduced by 0.1~0.15%.



Suitable for scenes with high ground reflectivity, making full use of reflected light and increase the power generation.

# LESSO 210 N-TOPCon Bifacial Module



Power Range  
**560W ~ 590W**



Power Output Tolerance  
**0W ~ +5W**

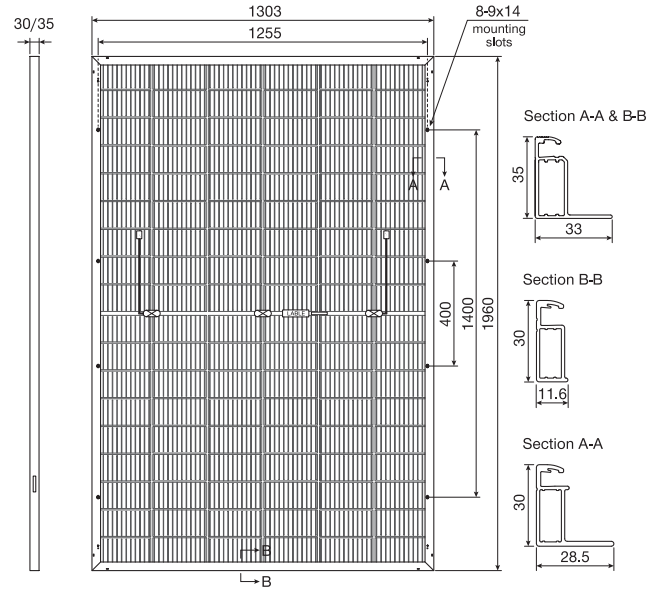


Maximum Efficiency  
**23.10%**

## Structure Performance

Solar Cell Type	210mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	1960×1303×35mm/30mm
Weight	32.8kg(35mm) / 31.7kg(30mm)
Front Glass	2.0mm, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm <sup>2</sup> , portrait $\begin{matrix} 400\text{mm} (+) \\ 200\text{mm} (-) \end{matrix}$ / landscape $\begin{matrix} 1400\text{mm} (+) \\ 1400\text{mm} (-) \end{matrix}$ 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)

(Unit: mm)



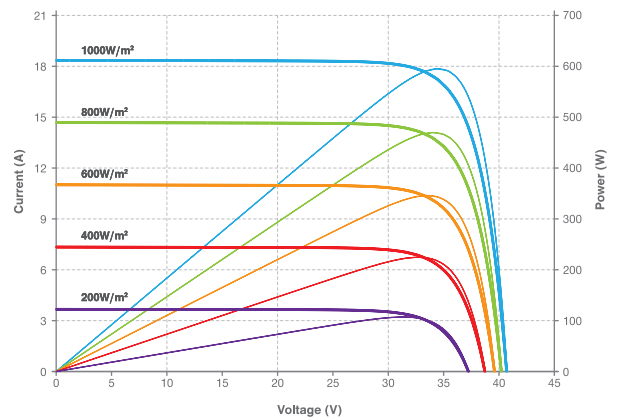
## Electrical Performance Parameters | STC

Model Type	560C(HBD) 54(210)	565C(HBD) 54(210)	570C(HBD) 54(210)	575C(HBD) 54(210)	580C(HBD) 54(210)	585C(HBD) 54(210)	590C(HBD) 54(210)	
Nominal Max. Power	P <sub>max</sub> (W)	560	565	570	575	580	585	590
Max. Power Voltage	V <sub>mp</sub> (V)	32.36	32.55	32.75	32.94	33.14	33.32	33.51
Max. Power Current	I <sub>mp</sub> (A)	17.31	17.36	17.41	17.46	17.51	17.56	17.61
Open Circuit Voltage	V <sub>oc</sub> (V)	39.55	39.74	39.93	40.12	40.31	40.50	40.69
Short Circuit Current	I <sub>sc</sub> (A)	18.11	18.15	18.19	18.23	18.27	18.31	18.35
Module Efficiency	(%)	21.93	22.12	22.32	22.51	22.71	22.91	23.10
Power Output Tolerance	(W)	0~+5W						

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

\* Power measurement tolerance ±3%.

## Current-Voltage & Power-Voltage Curve (590C)



## Electrical Performance Parameters | NMOT

Model Type	560C(HBD) 54(210)	565C(HBD) 54(210)	570C(HBD) 54(210)	575C(HBD) 54(210)	580C(HBD) 54(210)	585C(HBD) 54(210)	590C(HBD) 54(210)	
Nominal Max. Power	P <sub>max</sub> (W)	430	434	438	442	446	450	454
Max. Power Voltage	V <sub>mp</sub> (V)	30.55	30.74	30.94	31.13	31.33	31.52	31.71
Max. Power Current	I <sub>mp</sub> (A)	14.08	14.12	14.16	14.20	14.24	14.28	14.32
Open Circuit Voltage	V <sub>oc</sub> (V)	35.38	35.56	35.75	35.93	36.12	36.30	36.49
Short Circuit Current	I <sub>sc</sub> (A)	11.78	11.81	11.84	11.87	11.91	11.94	11.97

\* NMOT: Irradiance 800W/m<sup>2</sup>, Cell Temperature 20°C, Wind Speed 1m/s.

\* Power measurement tolerance ±3%.

## Temperature Characteristics

Nominal Module Operating Temperature	44±2°C
Temperature Coefficient (I <sub>sc</sub> )	+0.043%
Temperature Coefficient (V <sub>oc</sub> )	-0.25%
Temperature Coefficient (P <sub>max</sub> )	-0.30%

## Maximum Parameters

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