


N-TOPCon series

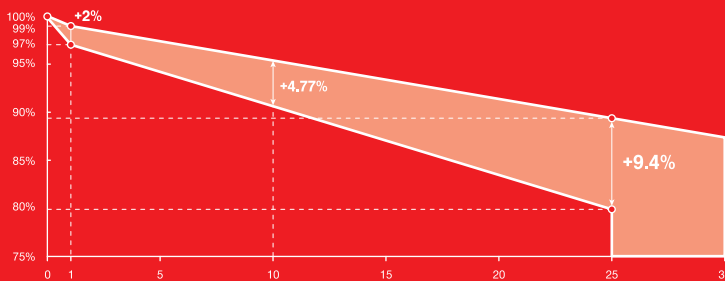
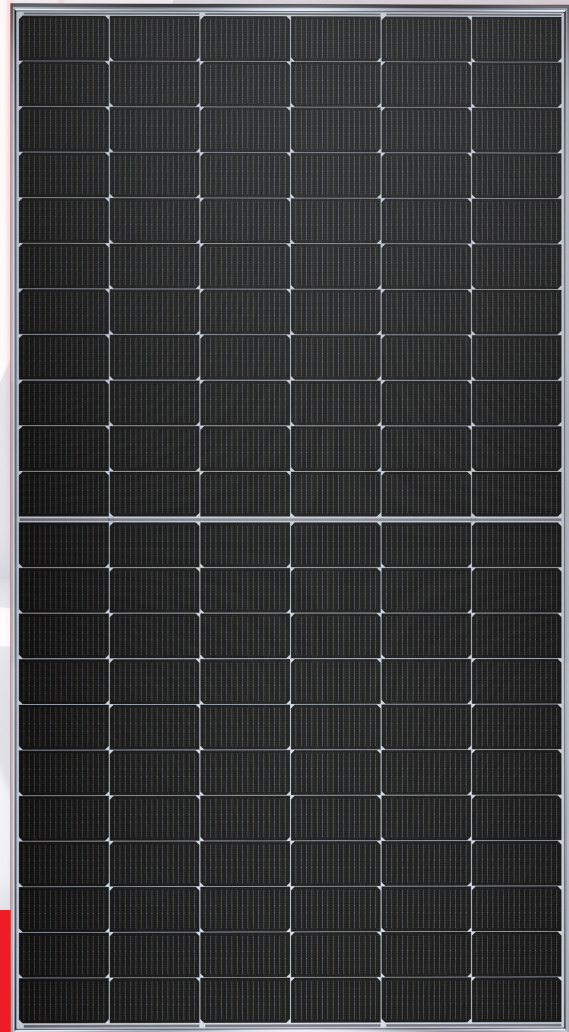
## 182 N-TOPCon Bifacial Module

515W ~ 530W

 **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

-  N-TOPCon brings 10-30% additional power generation comparing with conventional P-type module.
-  N-TOPCon solar cell has no LID naturally which can increase power generation.
-  Higher bifaciality, higher power output and lower BOS cost.
-  Double sides power output to reach higher comprehensive efficiency and get more profit.
-  Higher power output even under low-light environments like on cloudy or foggy days.
-  Higher power generation under working conditions, thanks to passivating contact cell technology.
-  More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area.

# LESSO 182 N-TOPCon Bifacial Module



Power Range  
**515W ~ 530W**



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

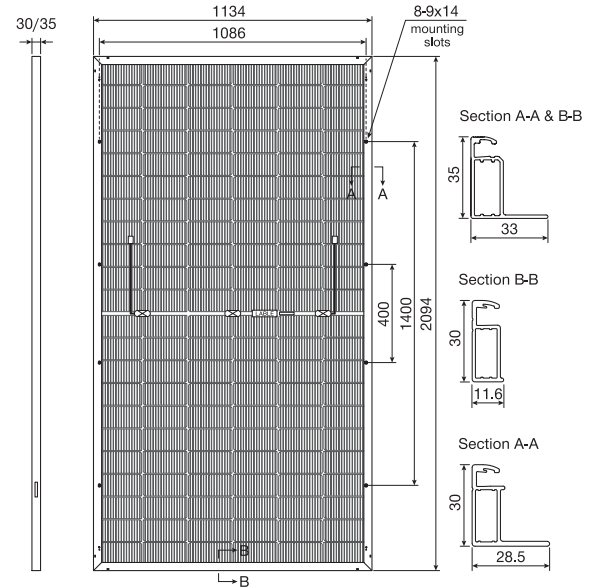


Maximum Efficiency  
**22.32%**

## Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	132pcs(6x22)
Module Dimension	2094×1134×35mm/30mm
Weight	29.6kg(35mm) / 28.4kg(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 $\begin{matrix} 400mm (+) \\ 200mm (-) \end{matrix}$ , landscape $\begin{matrix} 1400mm (+) \\ 1400mm (-) \end{matrix}$ 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)	682pcs(35mm) / 792pcs(30mm)

(Unit: mm)



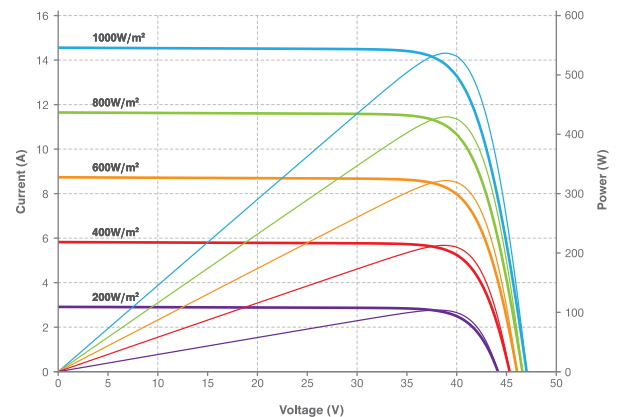
## Electrical Performance Parameters | STC

Model Type	515C(HBD) 66(182)	520C(HBD) 66(182)	525C(HBD) 66(182)	530C(HBD) 66(182)	
Nominal Max. Power	P <sub>max</sub> (W)	515	520	525	530
Max. Power Voltage	V <sub>mp</sub> (V)	38.50	38.70	38.89	39.09
Max. Power Current	I <sub>mp</sub> (A)	13.38	13.44	13.50	13.56
Open Circuit Voltage	V <sub>oc</sub> (V)	46.17	46.37	46.57	46.77
Short Circuit Current	I <sub>sc</sub> (A)	14.31	14.37	14.43	14.49
Module Efficiency	(%)	21.69	21.90	22.11	22.32
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 (535C)



## Electrical Performance Parameters | NMOT

Model Type	515C(HBD) 66(182)	520C(HBD) 66(182)	525C(HBD) 66(182)	530C(HBD) 66(182)	
Nominal Max. Power	P <sub>max</sub> (W)	386	390	394	398
Max. Power Voltage	V <sub>mp</sub> (V)	36.22	36.39	36.55	36.72
Max. Power Current	I <sub>mp</sub> (A)	10.66	10.72	10.78	10.84
Open Circuit Voltage	V <sub>oc</sub> (V)	43.62	43.81	44.00	44.19
Short Circuit Current	I <sub>sc</sub> (A)	11.58	11.63	11.68	11.73

\* 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	30A