

N-TOPCon series

182 N-TOPCon Monofacial Module

430W ~ 440W



12 years product workmanship warranty

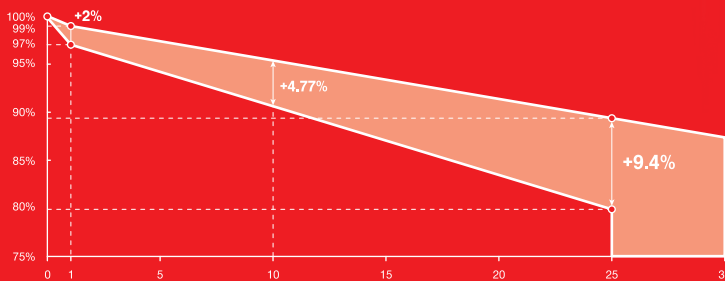
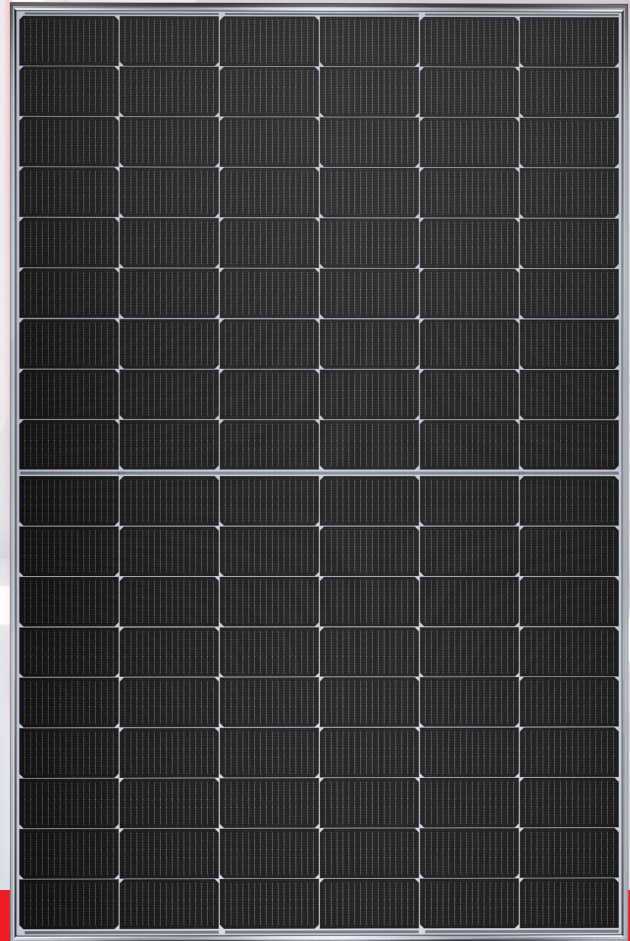


30 years linear power output warranty



1% 1st-year degradation

0.40% annual degradation



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.



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 Monofacial Module



Power Range
430W ~ 440W



Power Output Tolerance
0W ~ +5W

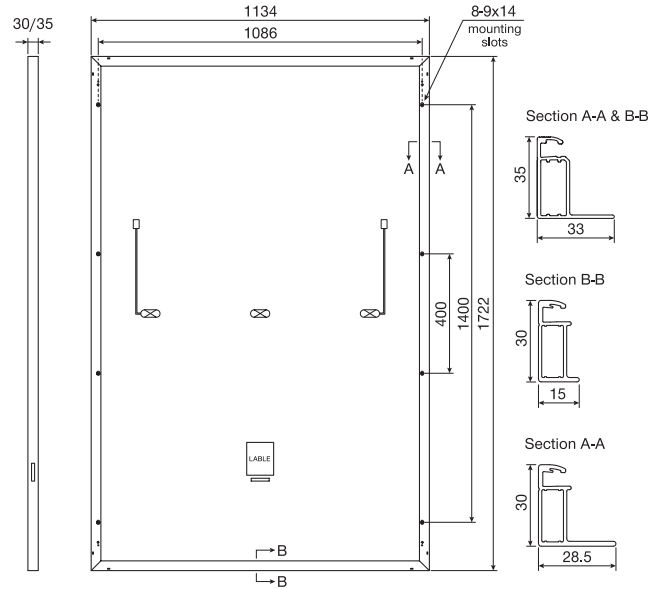


Maximum Efficiency
22.53%

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	1722×1134×35mm/30mm
Weight	21.8kg(35mm) / 20.6kg(30mm)
Front Glass	3.2mm, highly transparent tempered glass with anti-reflective coating
Back Sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait ^{400mm (+)} / _{200mm (-)} , landscape ^{1400mm (+)} / _{1400mm (-)} Length can be customized
Diode Quantity	3 pcs
Front side / Rear side	5400pa / 2400pa
Connector	PV-01 (Guangdong Lesso Electric Co., Ltd.)
Per Pallet	31pcs(35mm) / 36pcs(30mm)
Per Container(40'HQ)	806pcs(35mm) / 936pcs(30mm)
Fire Rating	Class C

(Unit: mm)



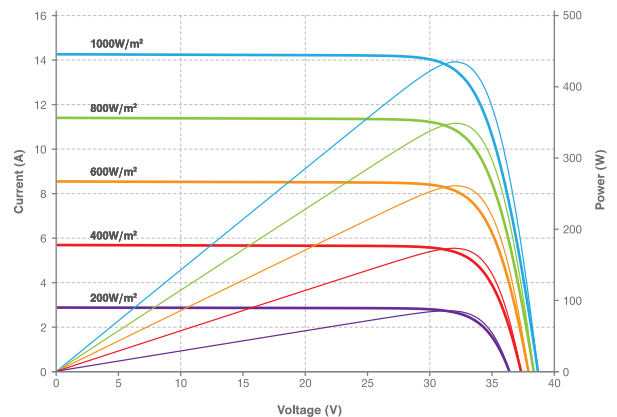
Electrical Performance Parameters | STC

Model Type		430C(HPM) 54(182)	435C(HPM) 54(182)	440C(HPM) 54(182)
Nominal Max. Power	P_{MAX} (W)	430	435	440
Max. Power Voltage	V_{MP} (V)	32.00	32.18	32.35
Max. Power Current	I_{MP} (A)	13.44	13.52	13.60
Open Circuit Voltage	V_{OC} (V)	38.54	38.73	38.92
Short Circuit Current	I_{SC} (A)	14.21	14.29	14.37
Module Efficiency	(%)	22.02	22.28	22.53
Power Output Tolerance	(W)		0~+5W	

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

* Power measurement tolerance ±3%.

Current-Voltage & Power-Voltage Curve (435C)



Electrical Performance Parameters | NMOT

Model Type		430C(HPM) 54(182)	435C(HPM) 54(182)	440C(HPM) 54(182)
Nominal Max. Power	P_{MAX} (W)	323	327	331
Max. Power Voltage	V_{MP} (V)	29.75	29.92	30.10
Max. Power Current	I_{MP} (A)	10.86	10.93	11.00
Open Circuit Voltage	V_{OC} (V)	36.61	36.79	36.97
Short Circuit Current	I_{SC} (A)	11.49	11.56	11.63

* NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s, Air Mass AM1.5.

* Power measurement tolerance ±3%.

Temperature Characteristics

Nominal Module Operating Temperature	44±2°C
Temperature Coefficient (I_{SC})	+0.043%
Temperature Coefficient (V_{OC})	-0.25%
Temperature Coefficient (P_{MAX})	-0.30%

Maximum Parameters

Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	25A