

N-TOPCon series

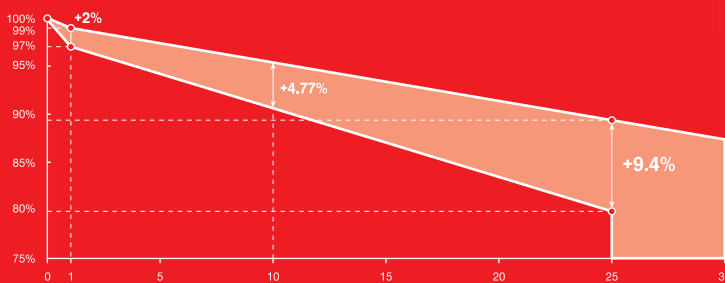
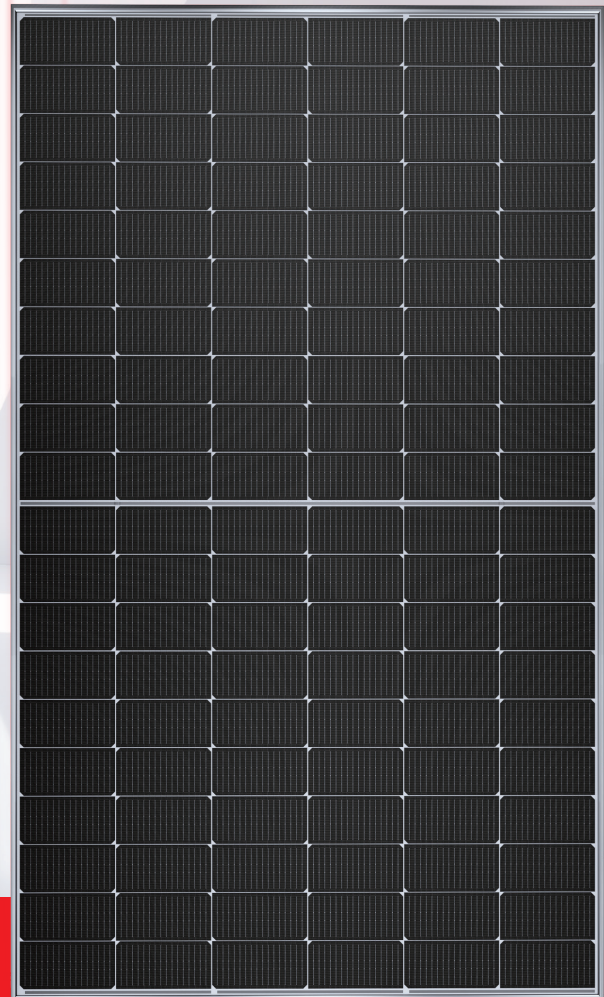
182 N-TOPCon Monofacial Module

465W ~ 480W

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.
- Higher power output even under low-light environments like on cloudy or foggy days.
- N-TOPCon solar cell has no LID naturally which can increase power generation.
- Higher power generation under working conditions, thanks to passivating contact cell technology.
- Higher bifaciality, higher power output and lower BOS cost.
- More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area.

LESSO 182 N-TOPCon Monofacial Module



Power Range
465W ~ 480W



Power Output Tolerance
0W ~ +5W

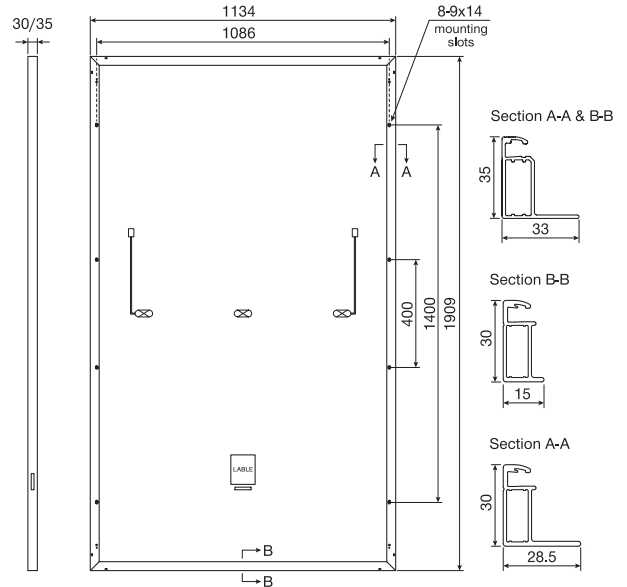


Maximum Efficiency
22.17%

Structure Performance

(Unit: mm)

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	120pcs(6×20)
Module Dimension	1909×1134×35mm/30mm
Weight	23.2kg(35mm) / 22.1kg(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	MC4 Compatible
Per Pallet	31pcs(35mm) / 36pcs(30mm)
Per Container(40'HQ)	744pcs(35mm) / 864pcs(30mm)



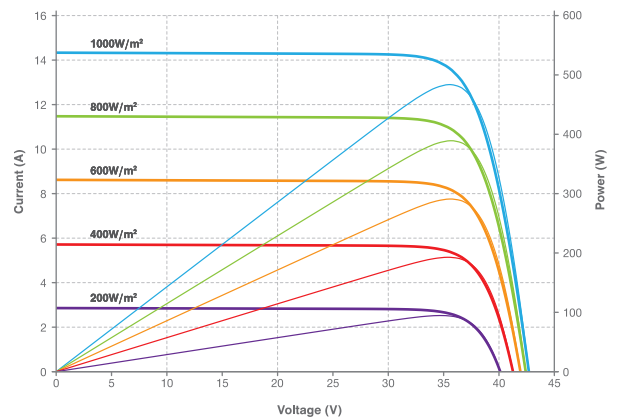
Electrical Performance Parameters | STC

Model Type	465C(HPM) 60(182)	470C(HPM) 60(182)	475C(HPM) 60(182)	480C(HPM) 60(182)
Nominal Max. Power P _{max} (W)	465	470	475	480
Max. Power Voltage V _{mp} (V)	35.02	35.18	35.35	35.51
Max. Power Current I _{mp} (A)	13.28	13.36	13.44	13.52
Open Circuit Voltage V _{oc} (V)	42.18	42.34	42.50	42.67
Short Circuit Current I _{sc} (A)	14.03	14.11	14.19	14.27
Module Efficiency (%)	21.48	21.71	21.94	22.17
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 (485C)



Electrical Performance Parameters | NMOT

Model Type	465C(HPM) 60(182)	470C(HPM) 60(182)	475C(HPM) 60(182)	480C(HPM) 60(182)
Nominal Max. Power P _{max} (W)	350	354	358	362
Max. Power Voltage V _{mp} (V)	32.96	33.15	33.34	33.52
Max. Power Current I _{mp} (A)	10.62	10.68	10.74	10.80
Open Circuit Voltage V _{oc} (V)	40.13	40.29	40.45	40.61
Short Circuit Current I _{sc} (A)	11.35	11.42	11.49	11.56

* NMOT: Irradiance 800W/m², Cell Temperature 20°C, Wind Speed 1m/s.

* 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