


N-TOPCon series

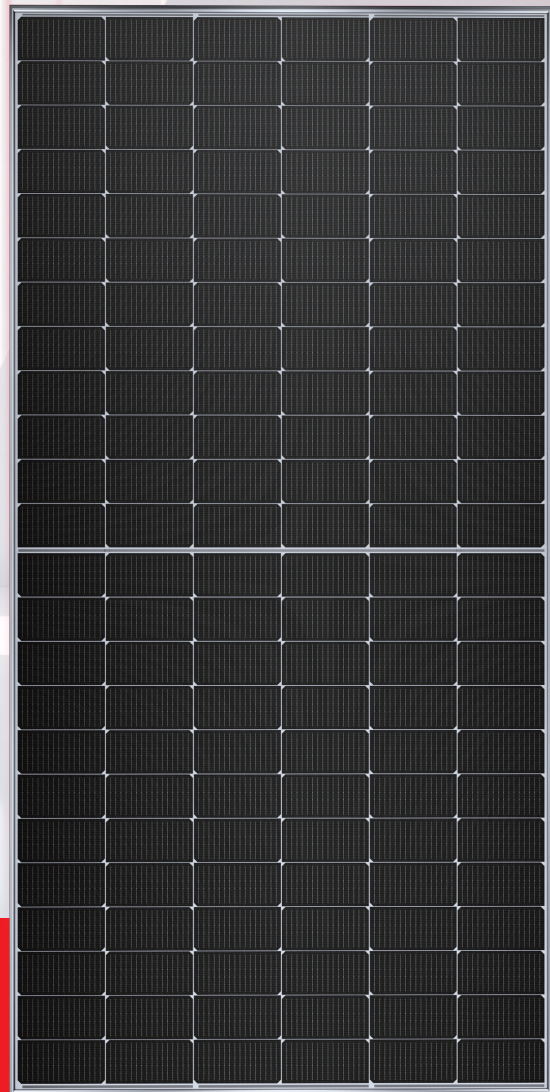
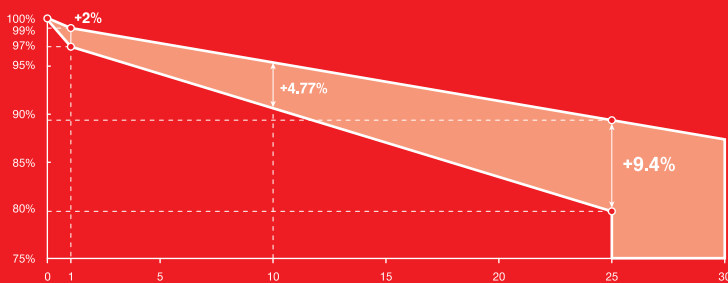
182 N-TOPCon Bifacial Module

570W ~ 595W

 **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
570W ~ 595W



Power Output Tolerance
0W ~ +5W

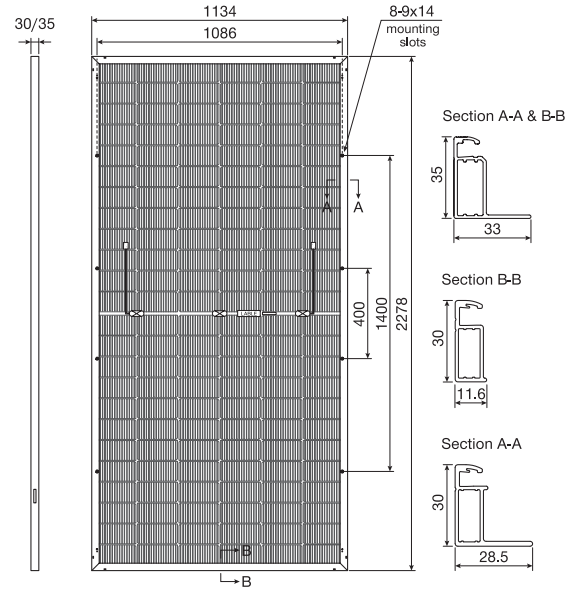


Maximum Efficiency
23.03%

Structure Performance

Solar Cell Type	183.75R N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	144pcs(6×24)
Module Dimension	2278×1134×35mm/30mm
Weight	32.3kg(35mm) / 31.4kg(30mm)
Front Glass	2.0mm, highly transparent tempered glass with anti-reflective coating
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)	620pcs(35mm) / 720pcs(30mm)

(Unit: mm)



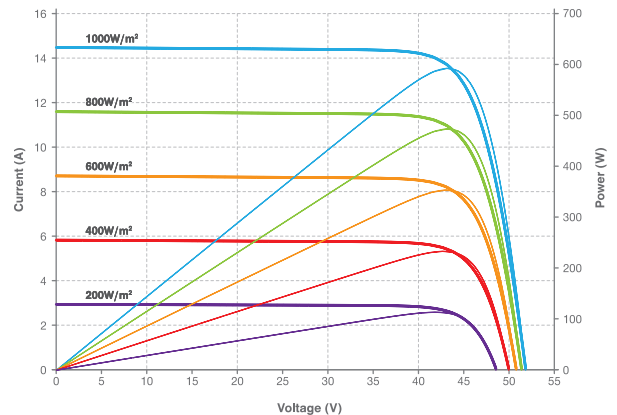
Electrical Performance Parameters | STC

Model Type	570C(HBD) 72(182)	575C(HBD) 72(182)	580C(HBD) 72(182)	585C(HBD) 72(182)	590C(HBD) 72(182)	595C(HBD) 72(182)	
Nominal Max. Power	P _{max} (W)	570	575	580	585	590	595
Max. Power Voltage	V _{mp} (V)	42.45	42.60	42.75	42.89	43.04	43.18
Max. Power Current	I _{mp} (A)	13.43	13.50	13.57	13.64	13.71	13.78
Open Circuit Voltage	V _{oc} (V)	51.03	51.23	51.43	51.63	51.83	52.03
Short Circuit Current	I _{sc} (A)	14.21	14.27	14.33	14.39	14.45	14.51
Module Efficiency	(%)	22.07	22.26	22.45	22.65	22.84	23.03
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 (595C)



Electrical Performance Parameters | NMOT

Model Type	570C(HBD) 72(182)	575C(HBD) 72(182)	580C(HBD) 72(182)	585C(HBD) 72(182)	590C(HBD) 72(182)	595C(HBD) 72(182)	
Nominal Max. Power	P _{max} (W)	429	433	437	441	445	449
Max. Power Voltage	V _{mp} (V)	39.87	40.02	40.17	40.32	40.46	40.60
Max. Power Current	I _{mp} (A)	10.76	10.82	10.88	10.94	11.00	11.06
Open Circuit Voltage	V _{oc} (V)	48.47	48.66	48.85	49.04	49.23	49.42
Short Circuit Current	I _{sc} (A)	11.46	11.51	11.56	11.61	11.66	11.71

* 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	30A

