

N-TopCon series

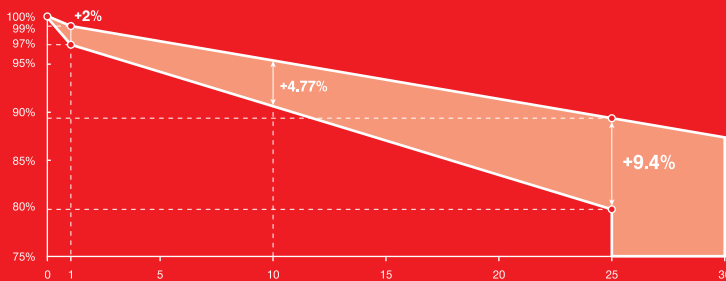
182 N-TopCon Bifacial Polyurethane Composite Module

555W ~ 585W

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

Eliminates the need for grounding, lowers the possibility of Potential-induced degradation.

Eighth-grade resistance to saline spray and chemical corrosion.

Lightweight design, easy to transportation and installation.

Axial tensile strength is seven times that of aluminum alloy.

Utilised in saline, high-humidity regions adjacent to offshore.

LESSO 182 N-TopCon Bifacial Polyurethane Composite Module



Power Range
555W ~ 585W



Power Output Tolerance
0W ~ +5W

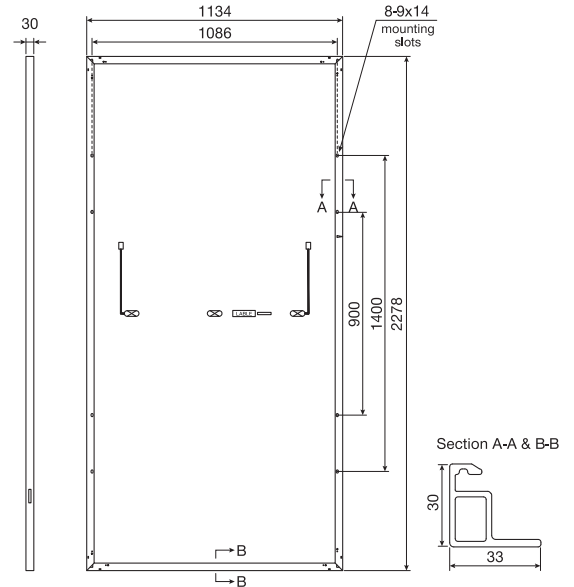


Maximum Efficiency
22.65%

Structure Performance

(Unit: mm)

Solar Cell Type	182mm N-TopCon Mono Cell (Half Cell)
Solar Cell Arrangement	144pcs(6×24)
Module Dimension	2278×1134×30mm
Weight	30.6kg
Front Glass	2.0mm, highly transparent tempered glass with anti-reflective coating
Frame	Polyurethane Composite Frame
Junction Box	IP68 rated
Cable	4mm ² , portrait ^{490mm (+)} / _{200mm (-)} , landscape ^{1400mm (+)} / _{1400mm (-)} Length can be customized
Diode Quantity	3 pcs
Front side / Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	36pcs
Per Container(40'HQ)	720pcs



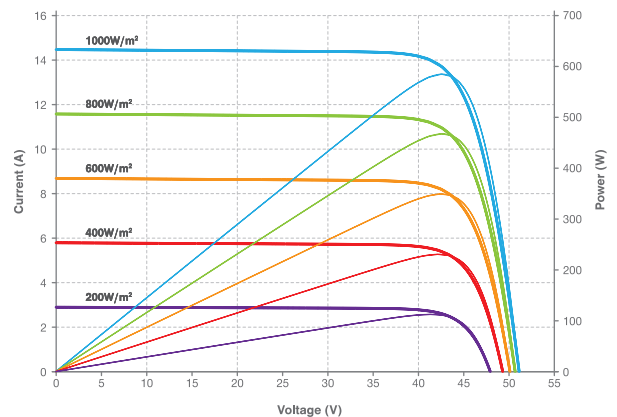
Electrical Performance Parameters | STC

Model Type		555C(HBD) 72(182)	560C(HBD) 72(182)	565C(HBD) 72(182)	570C(HBD) 72(182)	575C(HBD) 72(182)	580C(HBD) 72(182)	585C(HBD) 72(182)
Nominal Max. Power	P _{max} (W)	555	560	565	570	575	580	585
Max. Power Voltage	V _{mp} (V)	41.92	42.11	42.30	42.45	42.60	42.75	42.89
Max. Power Current	I _{mp} (A)	13.24	13.30	13.36	13.43	13.50	13.57	13.64
Open Circuit Voltage	V _{oc} (V)	50.43	50.63	50.83	51.03	51.23	51.43	51.63
Short Circuit Current	I _{sc} (A)	14.03	14.09	14.15	14.21	14.27	14.33	14.39
Module Efficiency	(%)	21.48	21.68	21.87	22.07	22.26	22.45	22.65
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 (585C)



Electrical Performance Parameters | NMOT

Model Type		555C(HBD) 72(182)	560C(HBD) 72(182)	565C(HBD) 72(182)	570C(HBD) 72(182)	575C(HBD) 72(182)	580C(HBD) 72(182)	585C(HBD) 72(182)
Nominal Max. Power	P _{max} (W)	417	421	425	429	433	437	441
Max. Power Voltage	V _{mp} (V)	39.42	39.57	39.72	39.87	40.02	40.17	40.32
Max. Power Current	I _{mp} (A)	10.58	10.64	10.70	10.76	10.82	10.88	10.94
Open Circuit Voltage	V _{oc} (V)	47.90	48.09	48.28	48.47	48.66	48.85	49.04
Short Circuit Current	I _{sc} (A)	11.32	11.37	11.42	11.46	11.51	11.56	11.61

* 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