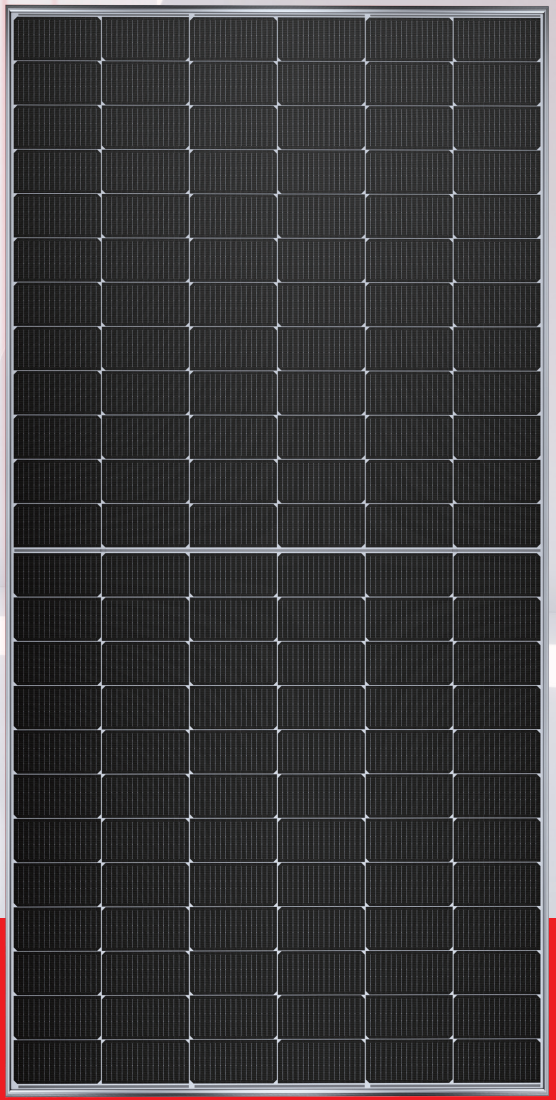
LESSO

LESSO GROUP
STOCK CODE: 2128.HK

N-TOPCon series

182 N-TOPCon Monofacial Module

580W ~ 600W

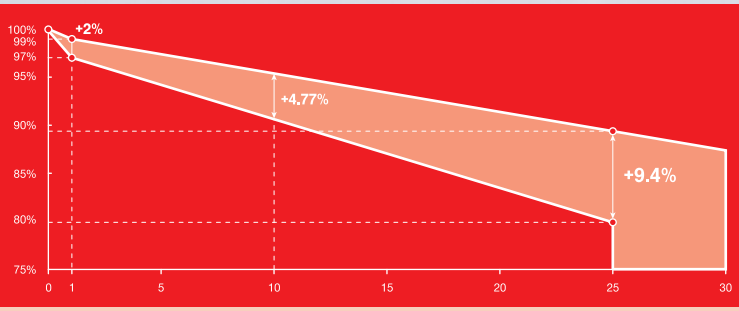


12 years product workmanship warranty

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.

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Made in China and Indonesia

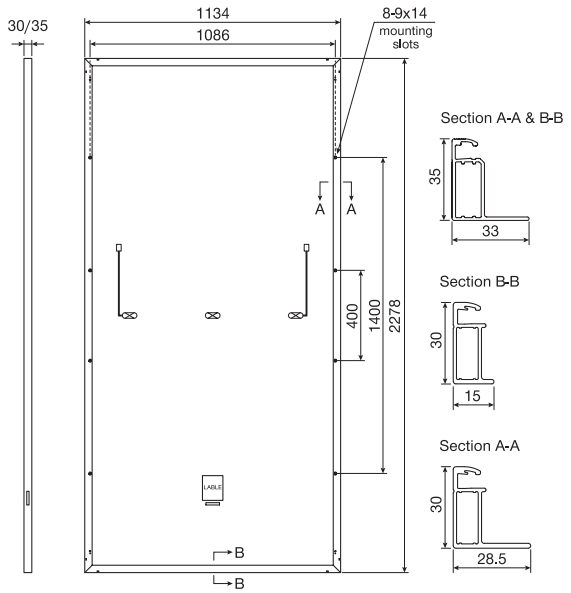
LESSO 182 N-TOPCon Monofacial Module

Power Range	Power Output Tolerance	Maximum Efficiency
580W ~ 600W	0W ~ +5W	23.23%

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	28.0kg(35mm) / 26.5kg(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	4mm², 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)	620pcs(35mm) / 720pcs(30mm)
Fire Rating	Class C

(Unit: mm)

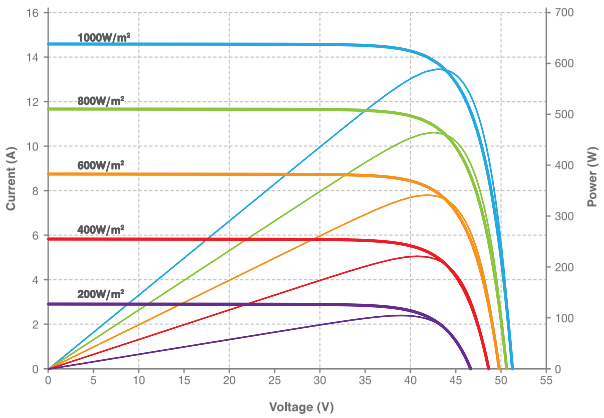


Electrical Performance Parameters | STC

Model Type		580C(HPM) 72(182)	585C(HPM) 72(182)	590C(HPM) 72(182)	595C(HPM) 72(182)	600C(HPM) 72(182)
Nominal Max. Power	P_{MAX} (W)	580	585	590	595	600
Max. Power Voltage	V_{MP} (V)	42.53	42.67	42.82	42.97	43.12
Max. Power Current	I_{MP} (A)	13.64	13.71	13.78	13.85	13.92
Open Circuit Voltage	V_{OC} (V)	52.43	52.63	52.83	53.03	52.23
Short Circuit Current	I_{SC} (A)	14.43	14.51	14.59	14.67	14.75
Module Efficiency	(%)	22.45	22.65	22.84	23.03	23.23
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		580C(HPM) 72(182)	585C(HPM) 72(182)	590C(HPM) 72(182)	595C(HPM) 72(182)	600C(HPM) 72(182)
Nominal Max. Power	P_{MAX} (W)	437	441	445	449	453
Max. Power Voltage	V_{MP} (V)	39.95	40.06	40.17	40.28	40.39
Max. Power Current	I_{MP} (A)	10.94	11.01	11.08	11.15	11.22
Open Circuit Voltage	V_{OC} (V)	48.42	48.55	48.68	48.81	48.94
Short Circuit Current	I_{SC} (A)	11.66	11.72	11.78	11.84	11.90

* 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

Guangdong Lesso Banhao New Energy Technology Group Co., Ltd.
The 1st and 2nd floors of the workshop in Zone 2, No. 58,Longzhou West Road, Longjiang Town, Shunde District,Foshan City, 528318 Guangdong, P.R.China
info@lessosolar.com LESSO Solar