


Pure Black **PRO** series

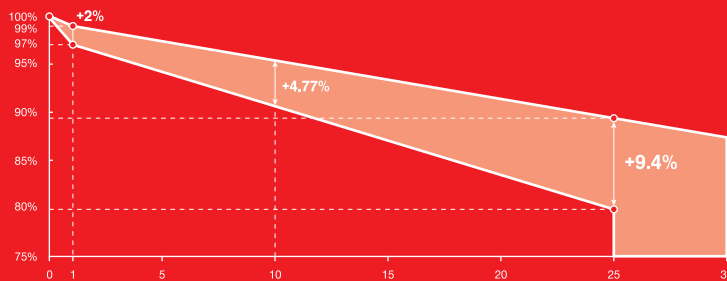
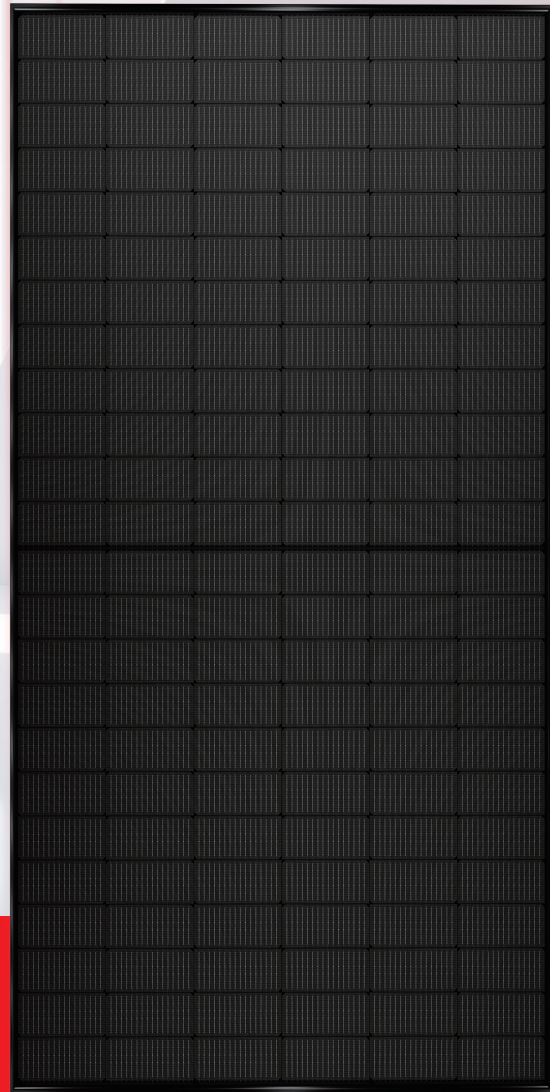
182 N-TOPCon Bifacial Single Glass Module

580W ~ 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

-  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 Pure Black N-TOPCon Bifacial Single Glass Module



Power Range
580W ~ 585W



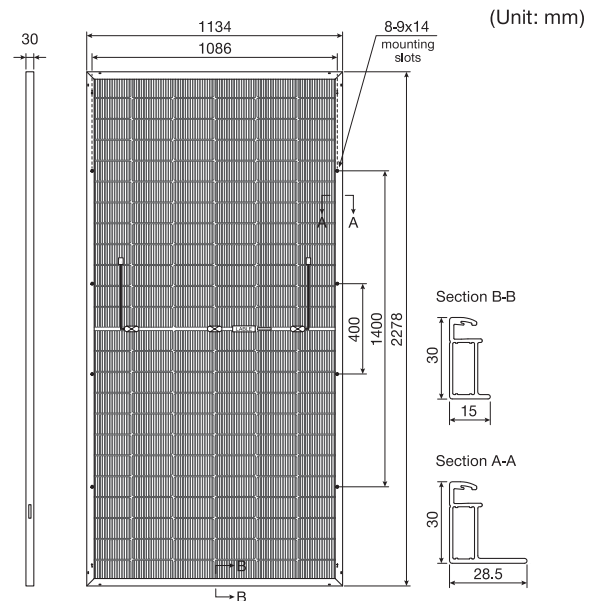
Power Output Tolerance
0W ~ +5W



Maximum Efficiency
22.65%

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	144pcs(6×24)
Module Dimension	2278×1134×30mm
Weight	26.9kg
Front Glass	3.2mm, highly transparent tempered glass with anti-reflective coating
Back Sheet	Transparent with black grid
Frame	Anodized Aluminum Alloy (Black)
Junction Box	IP68 rated
Cable	4mm ² , portrait 400mm(+), landscape 1400mm(+), 200mm(-), 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	36pcs
Per Container(40'HQ)	936pcs
Fire Rating	Class C

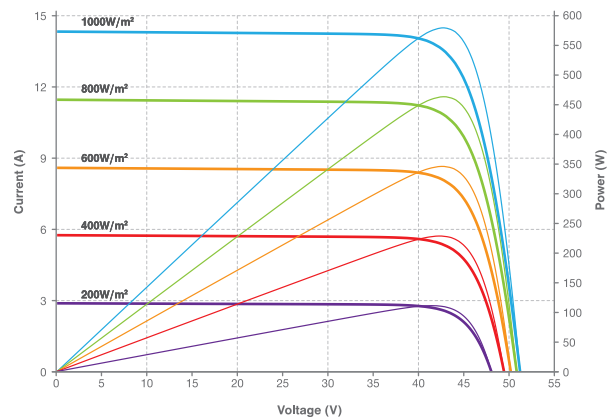


Electrical Performance Parameters | STC

Model Type	580C(HBB) 72(182)	585C(HBB) 72(182)
Nominal Max. Power P_{max} (W)	580	585
Max. Power Voltage V_{MP} (V)	42.50	42.50
Max. Power Current I_{MP} (A)	13.65	13.72
Open Circuit Voltage V_{OC} (V)	53.51	53.71
Short Circuit Current I_{SC} (A)	14.42	14.48
Module Efficiency (%)	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 (580C)



Bifacial Nameplate Irradiance | BNPI

Model Type	580C(HBB) 72(182)	585C(HBB) 72(182)
Nominal Max. Power P_{max} (W)	630	635
Open Circuit Voltage V_{OC} (V)	53.60	53.80
Short Circuit Current I_{SC} (A)	15.92	15.99
BIFI	0.37	0.37

* BIFI: rear irradiance driven power gain yield.
* BNPI: Irradiance Front side 100W/m² Rear side 135W/m², Ambient Temperature 25°C, Air Mass AM1.5.
* Power measurement tolerance ±3%.

Bifaciality Coefficient

Tolerance/ ρ_{Isc}	69.20±4%
Tolerance/ ρ_{Voc}	99.00±3%
Tolerance/ ρ_{Pmax}	70.70±3%

Short Circuit Current at BSI

Tolerance/ I_{sc} [A/c]	16.08±4%
---------------------------	----------

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