

Pure Black **PRO** series

# 182 N-TOPCon Monofacial Module

**560W ~ 580W**



**12** years product workmanship warranty

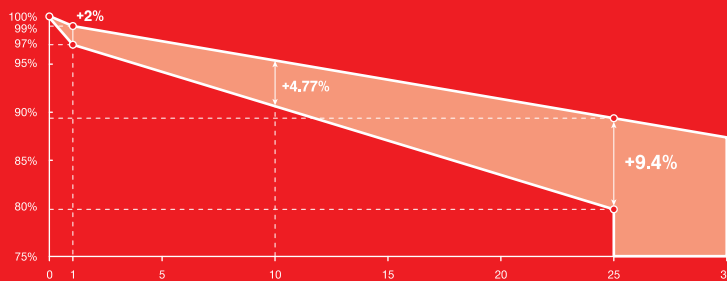
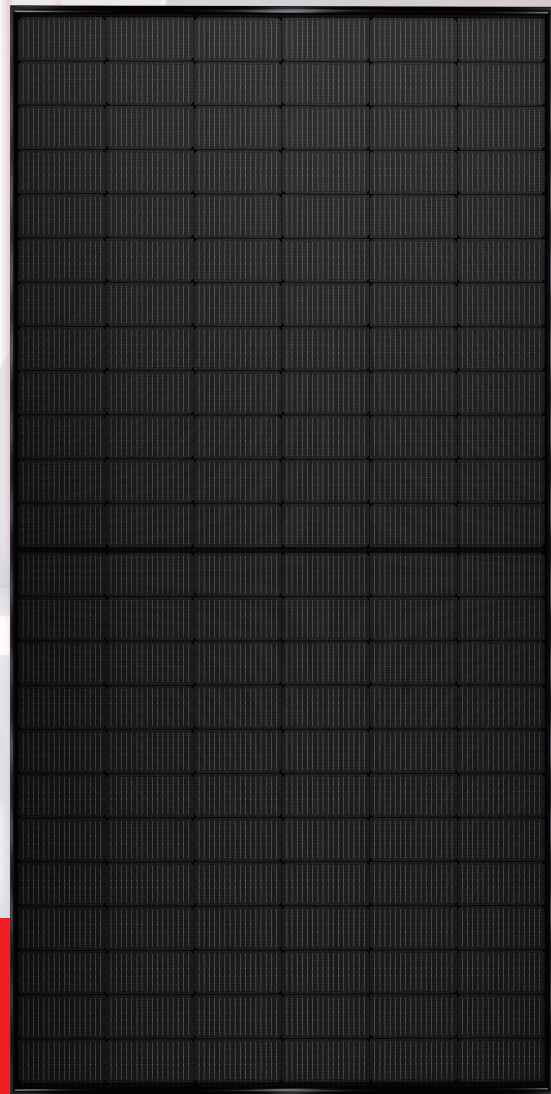


**30** years linear power output warranty



**1%** 1st-year degradation

**0.40%** annual degradation



## 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.



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 Pure Black N-TOPCon Monofacial Module



Power Range  
**560W ~ 580W**



Power Output Tolerance  
**0W ~ +5W**

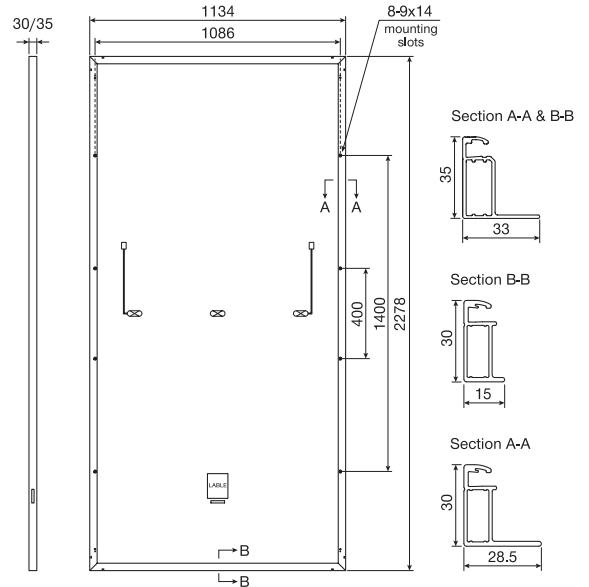


Maximum Efficiency  
**22.45%**

## Structure Performance

<b>Solar Cell Type</b>	182mm N-TOPCon Mono Cell (Half Cell)
<b>Solar Cell Arrangement</b>	144pcs(6×24)
<b>Module Dimension</b>	2278×1134×35mm/30mm
<b>Weight</b>	28.0kg(35mm) / 26.3kg(30mm)
<b>Front Glass</b>	3.2mm, highly transparent tempered glass with anti-reflective coating
<b>Back Sheet</b>	Black
<b>Frame</b>	Anodized Aluminum Alloy (Black)
<b>Junction Box</b>	IP68 rated
<b>Cable</b>	4mm <sup>2</sup> , portrait <sup>400mm(+)</sup> / <sub>200mm(-)</sub> , landscape <sup>1400mm(+)</sup> / <sub>1400mm(-)</sub> Length can be customized
<b>Diode Quantity</b>	3 pcs
<b>Front side / Rear side</b>	5400pa / 2400pa
<b>Connector</b>	MC4 Compatible
<b>Per Pallet</b>	31pcs(35mm) / 36pcs(30mm)
<b>Per Container(40'HQ)</b>	620pcs(35mm) / 720pcs(30mm)

(Unit: mm)



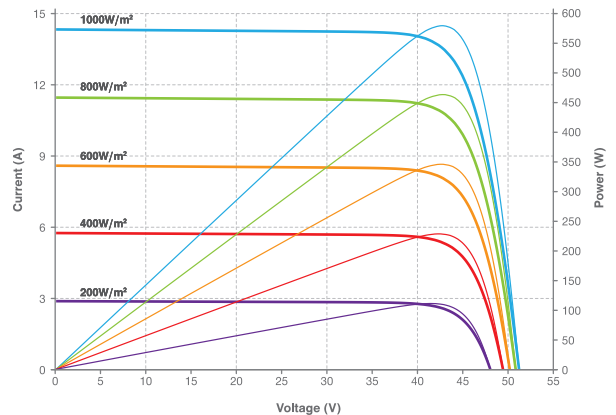
## Electrical Performance Parameters | STC

Model Type		560C(BPM) 72(182)	565C(BPM) 72(182)	570C(BPM) 72(182)	575C(BPM) 72(182)	580C(BPM) 72(182)
<b>Nominal Max. Power</b>	P <sub>max</sub> (W)	560	565	570	575	580
<b>Max. Power Voltage</b>	V <sub>mp</sub> (V)	42.17	42.33	42.48	42.63	42.78
<b>Max. Power Current</b>	I <sub>mp</sub> (A)	13.28	13.35	13.42	13.49	13.56
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	50.82	50.86	51.00	51.15	51.29
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	14.03	14.11	14.18	14.26	14.34
<b>Module Efficiency</b>	(%)	21.68	21.87	22.07	22.26	22.45
<b>Power Output Tolerance</b>	(W)	0~+5W				

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

\* Power measurement tolerance ±3%.

## Current-Voltage & Power-Voltage Curve (580C)



## Electrical Performance Parameters | NMOT

Model Type		560C(BPM) 72(182)	565C(BPM) 72(182)	570C(BPM) 72(182)	575C(BPM) 72(182)	580C(BPM) 72(182)
<b>Nominal Max. Power</b>	P <sub>max</sub> (W)	421	425	429	433	437
<b>Max. Power Voltage</b>	V <sub>mp</sub> (V)	39.65	39.80	39.95	40.10	40.24
<b>Max. Power Current</b>	I <sub>mp</sub> (A)	10.62	10.68	10.74	10.80	10.86
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	48.17	48.31	48.45	48.58	48.71
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	11.32	11.38	11.44	11.51	11.57

\* NMOT: Irradiance 800W/m<sup>2</sup>, Cell Temperature 20°C, Wind Speed 1m/s.

\* Power measurement tolerance ±3%.

## Temperature Characteristics

<b>Nominal Module Operating Temperature</b>	44±2°C
<b>Temperature Coefficient (I<sub>sc</sub>)</b>	+0.043%
<b>Temperature Coefficient (V<sub>oc</sub>)</b>	-0.25%
<b>Temperature Coefficient (P<sub>max</sub>)</b>	-0.30%

## Maximum Parameters

<b>Working Temperature</b>	-40~+85°C
<b>Maximum System Voltage</b>	1500V DC
<b>Nominal Maximum Fuse Current</b>	25A