

Pure Black **PRO** series

182 N-TopCon Monofacial Module

560W ~ 580W



12 years product workmanship warranty

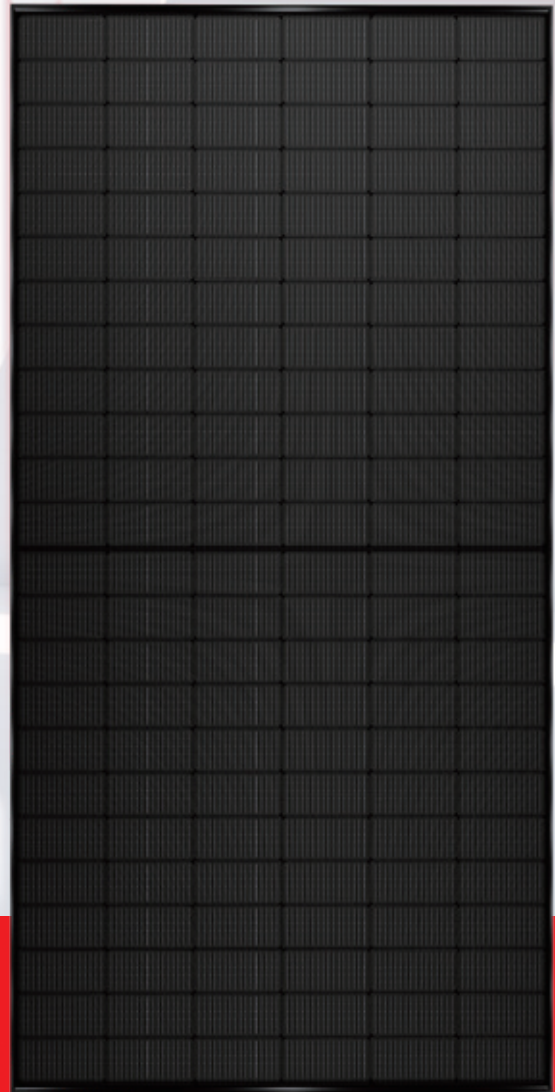
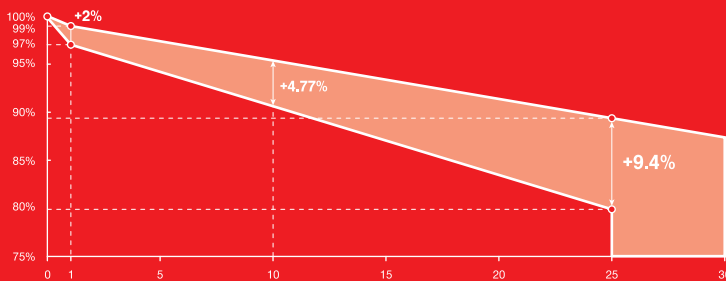


30 years linear power output warranty



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

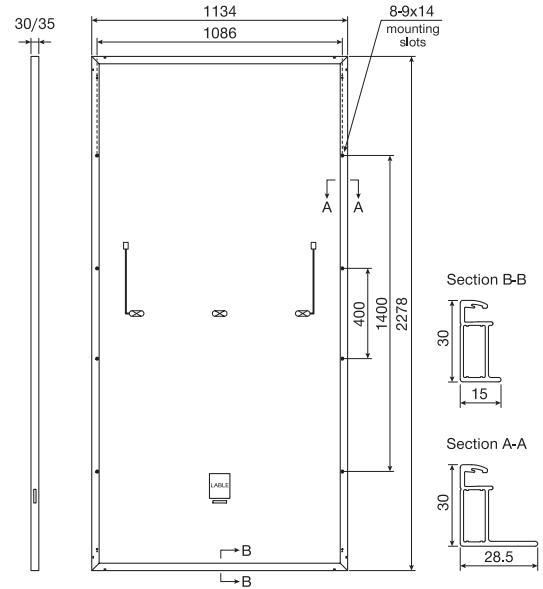


Maximum Efficiency
22.45%

Structure Performance

(Unit: mm)

| | |
|-------------------------------|---|
| Solar Cell Type | 182mm N-TopCon Mono Cell (Half Cell) |
| Solar Cell Arrangement | 144pcs(6×24) |
| Module Dimension | 2278×1134×35mm/30mm |
| Weight | 28.0kg(35mm) / 26.3kg(30mm) |
| Front Glass | 3.2mm, highly transparent tempered glass with anti-reflective coating |
| Back Sheet | Black |
| Frame | Anodized Aluminum Alloy (Black) |
| 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) |



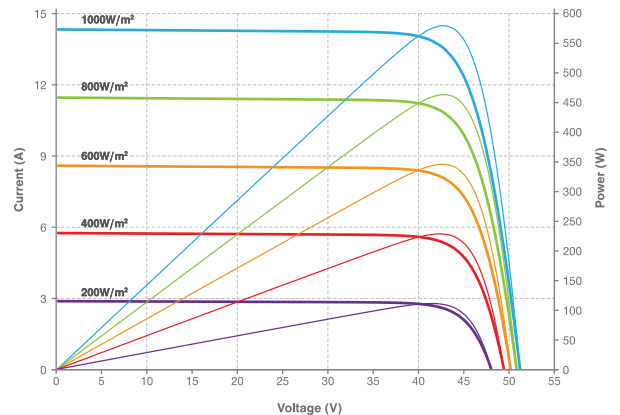
Electrical Performance Parameters | STC

| Model Type | | 560C(BPM) 72(182) | 565C(BPM) 72(182) | 570C(BPM) 72(182) | 575C(BPM) 72(182) | 580C(BPM) 72(182) |
|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Nominal Max. Power | P _{max} (W) | 560 | 565 | 570 | 575 | 580 |
| Max. Power Voltage | V _{mp} (V) | 42.17 | 42.33 | 42.48 | 42.63 | 42.78 |
| Max. Power Current | I _{mp} (A) | 13.28 | 13.35 | 13.42 | 13.49 | 13.56 |
| Open Circuit Voltage | V _{oc} (V) | 50.82 | 50.86 | 51.00 | 51.15 | 51.29 |
| Short Circuit Current | I _{sc} (A) | 14.03 | 14.11 | 14.18 | 14.26 | 14.34 |
| Module Efficiency | (%) | 21.68 | 21.87 | 22.07 | 22.26 | 22.45 |
| 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)



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) |
|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Nominal Max. Power | P _{max} (W) | 421 | 425 | 429 | 433 | 437 |
| Max. Power Voltage | V _{mp} (V) | 39.65 | 39.80 | 39.95 | 40.10 | 40.24 |
| Max. Power Current | I _{mp} (A) | 10.62 | 10.68 | 10.74 | 10.80 | 10.86 |
| Open Circuit Voltage | V _{oc} (V) | 48.17 | 48.31 | 48.45 | 48.58 | 48.71 |
| Short Circuit Current | I _{sc} (A) | 11.32 | 11.38 | 11.44 | 11.51 | 11.57 |

* 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 | 25A |

