


Pure Black **PRO** series

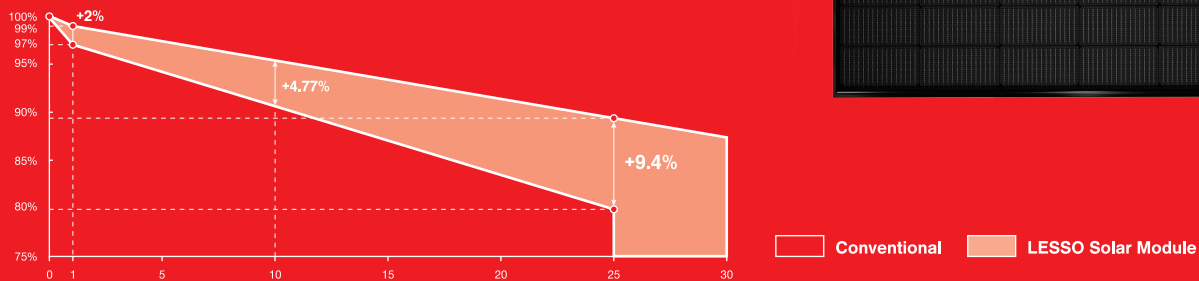
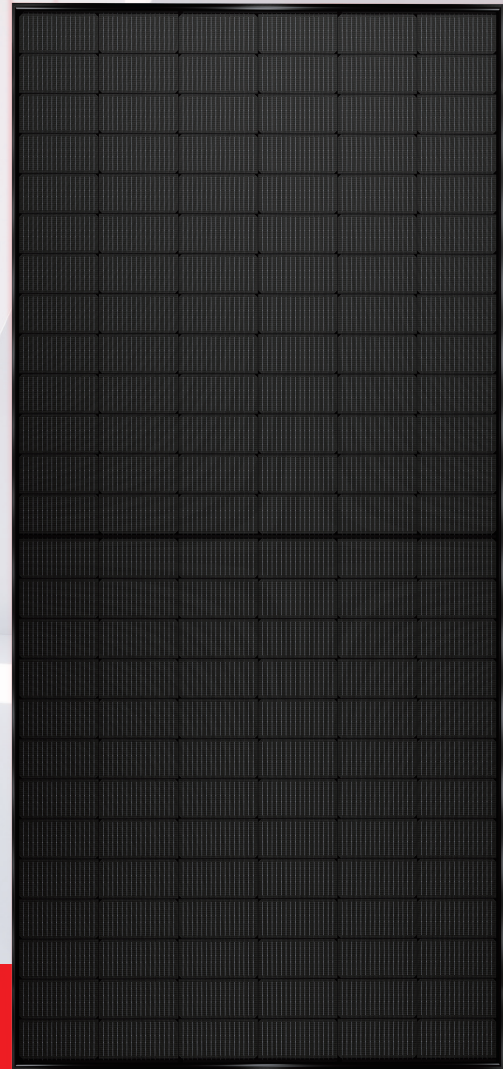
182 N-TOPCon Monofacial Module

605W ~ 635W

 **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.
-  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 Monofacial Module



Power Range
605W ~ 635W



Power Output Tolerance
0W ~ +5W



Maximum Efficiency
22.72%

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	156pcs(6×26)
Module Dimension	2465×1134×35mm/30mm
Weight	30.5kg(35mm) / 29.4kg(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 (+)} / _{230mm (-)} , 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)	496pcs(35mm) / 576pcs(30mm)

Electrical Performance Parameters | STC

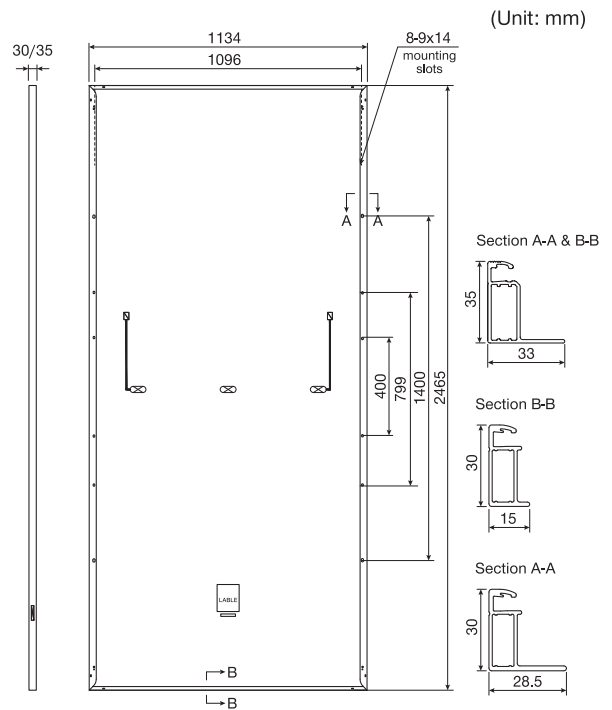
Model Type	605C(BPM) 78(182)	610C(BPM) 78(182)	615C(BPM) 78(182)	620C(BPM) 78(182)	625C(BPM) 78(182)	630C(BPM) 78(182)	635C(BPM) 78(182)	
Nominal Max. Power	P _{max} (W)	605	610	615	620	625	630	635
Max. Power Voltage	V _{mp} (V)	45.75	45.88	46.01	46.14	46.27	46.40	46.53
Max. Power Current	I _{mp} (A)	13.23	13.30	13.37	13.44	13.51	13.58	13.65
Open Circuit Voltage	V _{oc} (V)	54.43	54.58	54.73	54.88	55.03	55.18	55.33
Short Circuit Current	I _{sc} (A)	14.01	14.09	14.17	14.25	14.33	14.41	14.49
Module Efficiency	(%)	21.64	21.82	22.00	22.18	22.36	22.54	22.72
Power Output Tolerance	(W)	0~+5W						

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

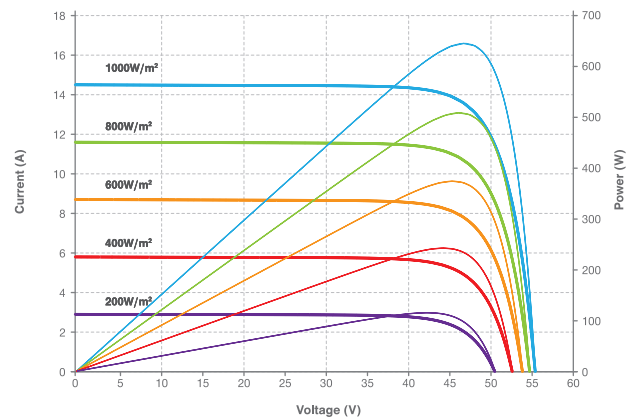
Electrical Performance Parameters | NMOT

Model Type	605C(BPM) 78(182)	610C(BPM) 78(182)	615C(BPM) 78(182)	620C(BPM) 78(182)	625C(BPM) 78(182)	630C(BPM) 78(182)	635C(BPM) 78(182)	
Nominal Max. Power	P _{max} (W)	454	458	462	466	470	474	478
Max. Power Voltage	V _{mp} (V)	43.04	43.17	43.30	43.43	43.56	43.69	43.82
Max. Power Current	I _{mp} (A)	10.55	10.61	10.67	10.73	10.79	10.85	10.91
Open Circuit Voltage	V _{oc} (V)	51.75	51.89	52.03	52.17	52.31	52.45	52.59
Short Circuit Current	I _{sc} (A)	11.29	11.35	11.42	11.48	11.55	11.61	11.68

* NMOT: Irradiance 800W/m², Cell Temperature 20°C, Wind Speed 1m/s.



Current-Voltage & Power-Voltage Curve (635C)



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