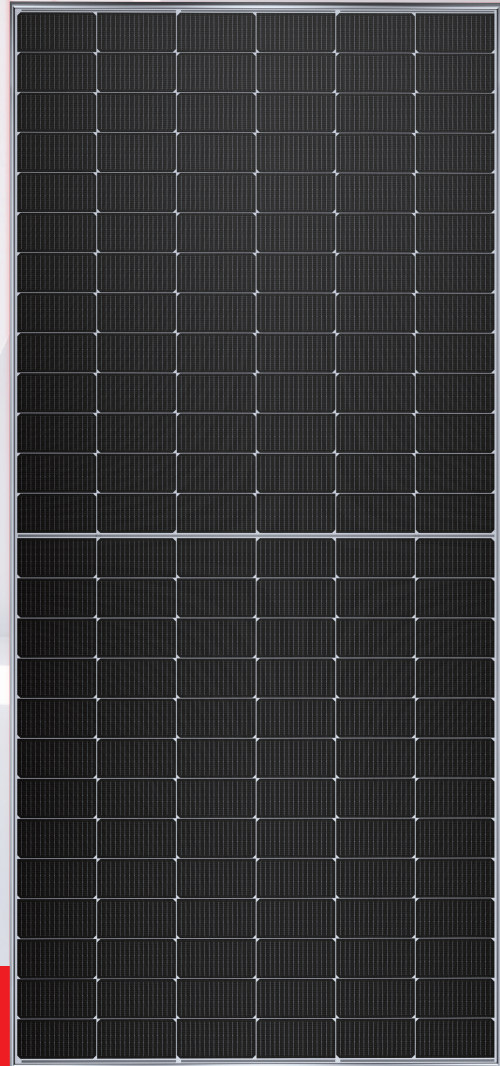


N series

182 N-type Monofacial Module

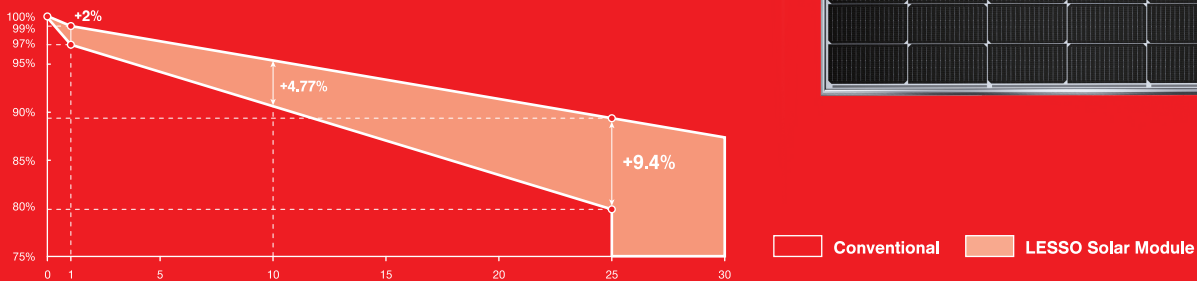
630W ~ 650W



12 years product workmanship warranty

30 years linear power output warranty

1% 1st-year degradation
0.40% annual degradation



FEATURES AND BENEFITS



Topcon technology, higher power generation.



High density packaging, improving energy density.



Better temperature coefficient, more power generation.



Zero LID, increase power generation.



Even cloudy or foggy days, better weak illumination response.



Multiple weather, resistance tests, wider applicability.

LESSO 182 N-type Monofacial Module (78)



Power Range
630W ~ 650W



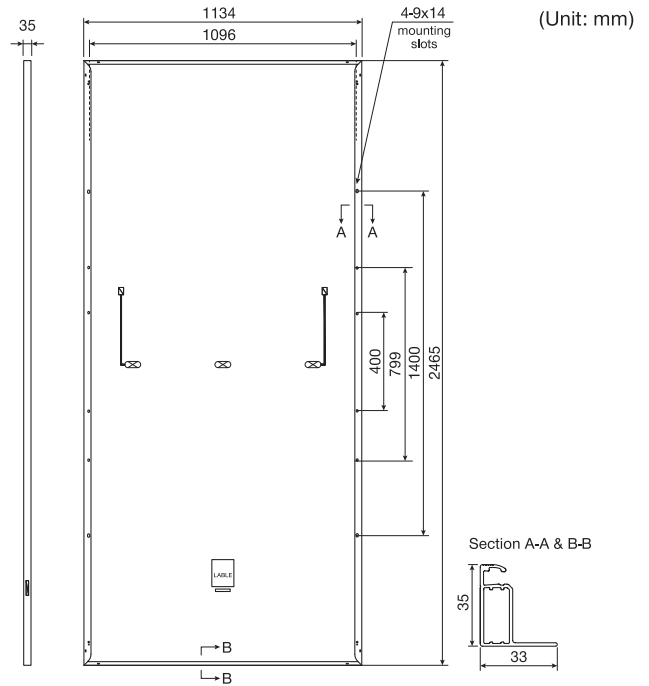
Power Output Tolerance
0W ~ +5W



Maximum Efficiency
23.25%

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	156pcs(6x26)
Module Dimension	2465×1134×35mm
Weight	30.5kg
Front Glass	3.2mm, highly transparent tempered glass with anti-reflective coating
Back Sheet	White
Frame	Anodized Aluminum Alloy
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
Per Container(40'HQ)	496pcs

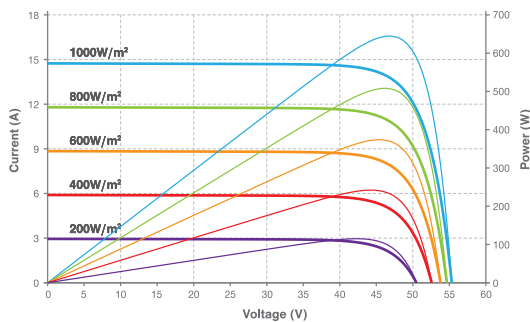


Electrical Performance Parameters

Model Type	630C(HPM)78(182)		635C(HPM)78(182)		640C(HPM)78(182)		645C(HPM)78(182)		650C(HPM)78(182)		
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	
Nominal Max. Power	P_{MAX} (W)	630	474	635	478	640	482	645	486	650	490
Max. Power Voltage	V_{MP} (V)	46.13	43.41	46.26	43.54	46.39	43.67	46.52	43.80	46.65	43.93
Max. Power Current	I_{MP} (A)	13.66	10.92	13.73	10.98	13.80	11.04	13.87	11.10	13.94	11.16
Open Circuit Voltage	V_{OC} (V)	54.88	52.14	55.03	52.28	55.18	52.42	55.33	52.56	55.48	52.70
Short Circuit Current	I_{SC} (A)	14.50	11.68	14.58	11.75	14.66	11.81	14.74	11.88	14.82	11.94
Module Efficiency	(%)	22.54		22.72		22.90		23.07		23.25	

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5; NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s; Power measurement tolerance ±3%.

Current-Voltage & Power-Voltage Curve (650C)



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