

N series

182 N-type Monofacial Module

475W ~ 495W



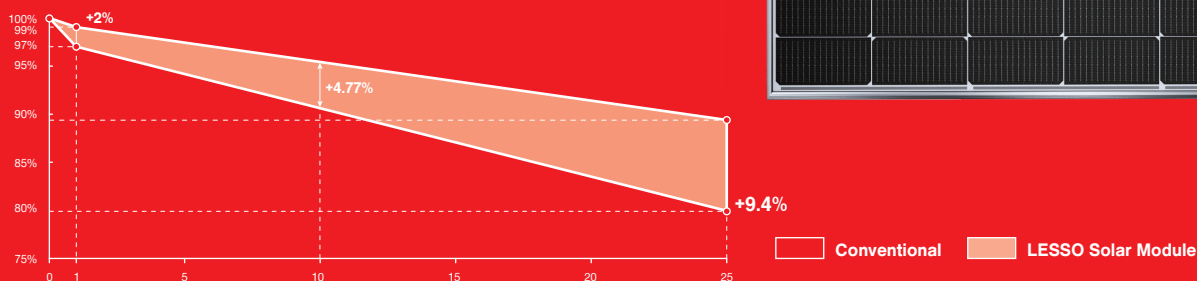
12 years product
workmanship warranty



25 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 (60)



Power Range
475W ~ 495W



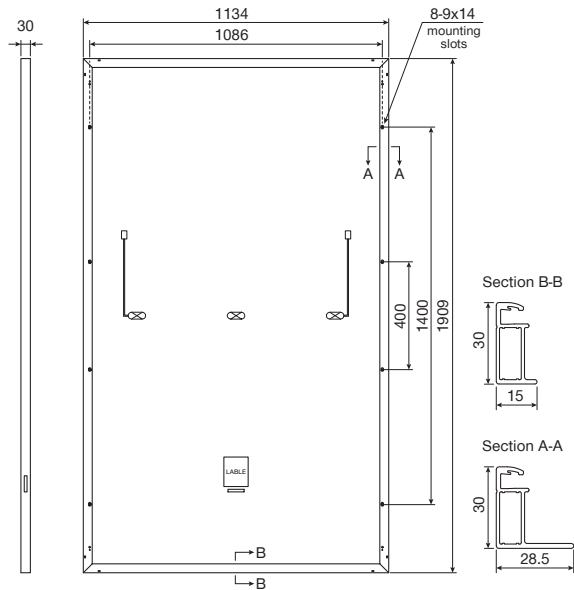
Power Output Tolerance
0W ~ +5W



Maximum Efficiency
22.87%

(Unit: mm)

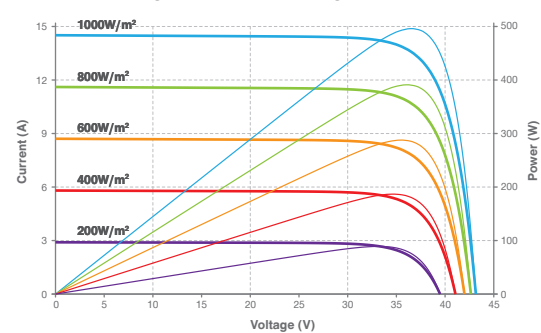
Structure Performance	
Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	120pcs(6×20)
Module Dimension	1909×1134×30mm
Weight	22.1kg
Front Glass	3.2mm, highly transparent tempered glass with anti-reflective coating
Back Sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm², 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	36pcs
Per Container(40'HQ)	864pcs



Electrical Performance Parameters											
Model Type	475C(HPM)60(182)		480C(HPM)60(182)		485C(HPM)60(182)		490C(HPM)60(182)		495C(HPM)60(182)		
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	
Nominal Max. Power	P_{MAX} (W)	475	358	480	362	485	366	490	370	495	374
Max. Power Voltage	V_{MP} (V)	35.35	33.34	35.51	33.52	35.66	33.71	35.82	33.90	35.99	34.09
Max. Power Current	I_{MP} (A)	13.44	10.74	13.52	10.80	13.60	10.86	13.68	10.92	13.76	10.98
Open Circuit Voltage	V_{OC} (V)	42.50	40.45	42.67	40.61	42.83	40.77	42.99	40.93	43.15	41.09
Short Circuit Current	I_{SC} (A)	14.19	11.49	14.27	11.56	14.35	11.63	14.43	11.70	14.51	11.77
Module Efficiency	(%)	21.94		22.17		22.40		22.63		22.87	

* 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 (495C)



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