

N series

182 N-type Bifacial Module

425W ~ 445W



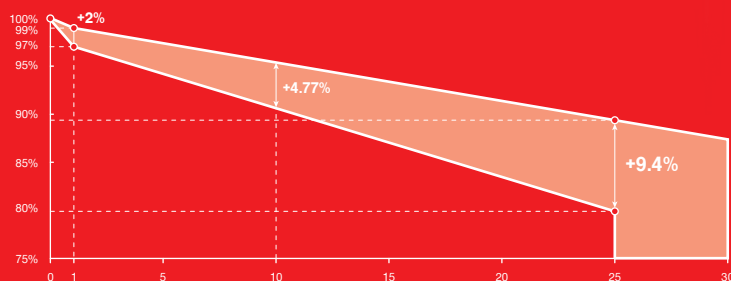
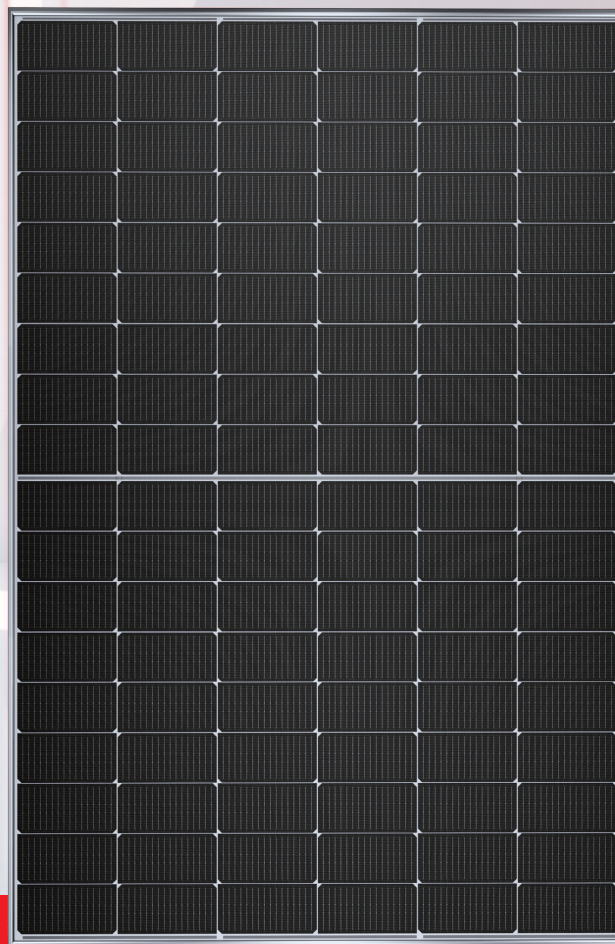
12 years product
workmanship warranty



30 years linear power output
warranty



1% 1st-year degradation
0.40% annual degradation



Conventional LESSO Solar Module

FEATURES AND BENEFITS



Topcon technology, higher power generation.



High density packaging, improving energy density.



Even cloudy or foggy days, better weak illumination response.



Zero LID, increase power generation.



Better temperature coefficient, more power generation.



Higher power output, lower bos cost.



Multiple weather, resistance tests, wider applicability.



Double-sided generation, powerfully energy boost.

LESSO 182 N-type Bifacial Module (54)



Power Range
425W ~ 445W



Power Output Tolerance
0W ~ +5W

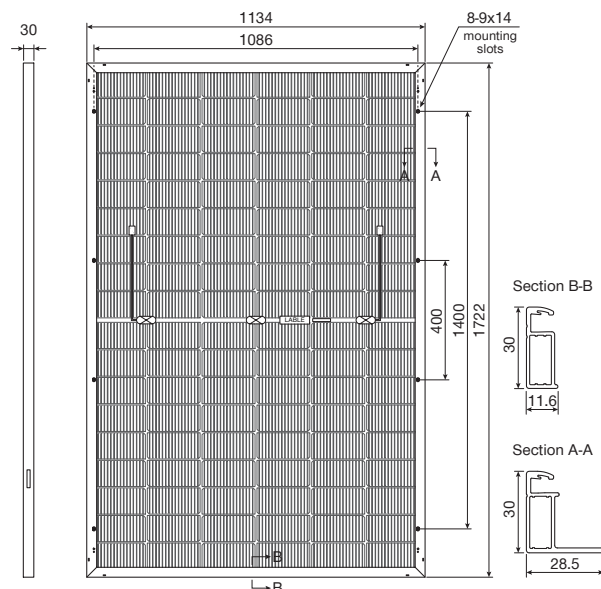


Maximum Efficiency
22.79%

(Unit: mm)

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	1722×1134×30mm
Weight	23.1kg
Front Glass	2.0mm, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy / Polyurethane Composite Frame
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	36pcs
Per Container(40'HQ)	936pcs

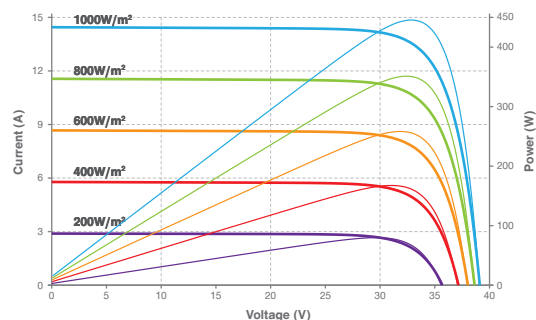


Electrical Performance Parameters

Model Type		425C(HBD)54(182)		430C(HBD)54(182)		435C(HBD)54(182)		440C(HBD)54(182)		445C(HBD)54(182)	
Testing Condition		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Nominal Max. Power	P _{MAX} (W)	425	319	430	323	435	327	440	331	445	335
Max. Power Voltage	V _{MPP} (V)	31.65	29.82	31.88	30.02	32.11	30.23	32.34	30.43	32.57	30.64
Max. Power Current	I _{MPP} (A)	13.43	10.70	13.49	10.76	13.55	10.82	13.61	10.88	13.67	10.94
Open Circuit Voltage	V _{OC} (V)	37.17	34.68	37.37	34.87	37.57	35.06	37.77	35.25	37.97	35.44
Short Circuit Current	I _{SC} (A)	14.67	11.90	14.73	11.95	14.79	12.00	14.85	12.05	14.91	12.10
Module Efficiency	(%)	21.76		22.02		22.28		22.53		22.79	

* 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 (445C)



Bifacial Output-rearside Power Gain

	Maximum Power	P _{MAX} (W)	446	452	457	462	467
	Module Efficiency	(%)	22.85	23.12	23.39	23.66	23.93
5%	Maximum Power	P _{MAX} (W)	468	473	479	484	490
	Module Efficiency	(%)	23.94	24.22	24.50	24.79	25.07
10%	Maximum Power	P _{MAX} (W)	531	538	544	550	556
	Module Efficiency	(%)	27.21	27.53	27.85	28.17	28.49

Temperature Characteristics

Nominal Module Operating Temperature	44±2°C	Temperature Coefficient (V _{OC})	-0.25%
Temperature Coefficient (I _{SC})	+0.043%	Temperature Coefficient (P _{MAX})	-0.30%

Maximum Parameters

Working Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A