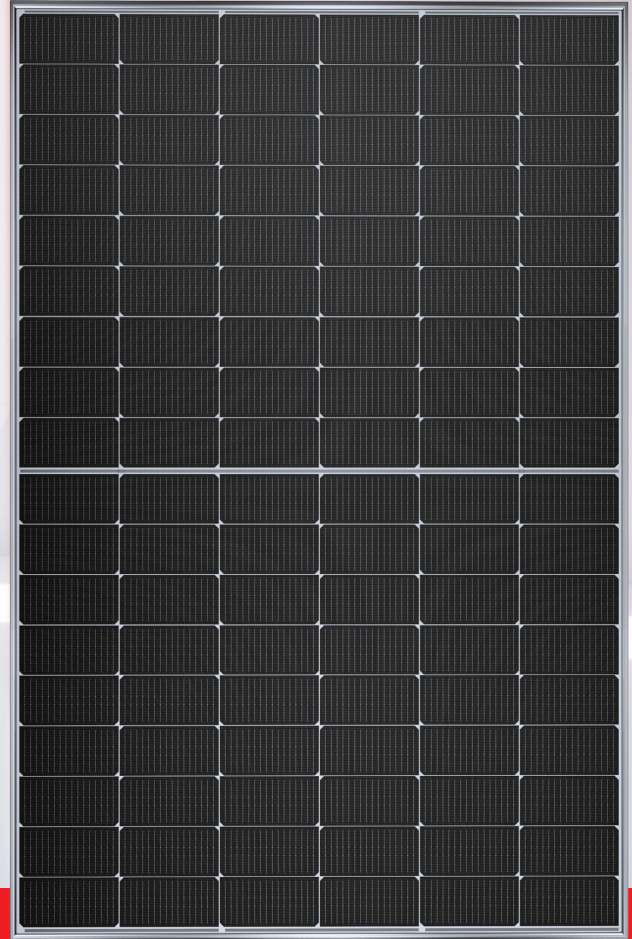


N series

182 N-type Bifacial Module

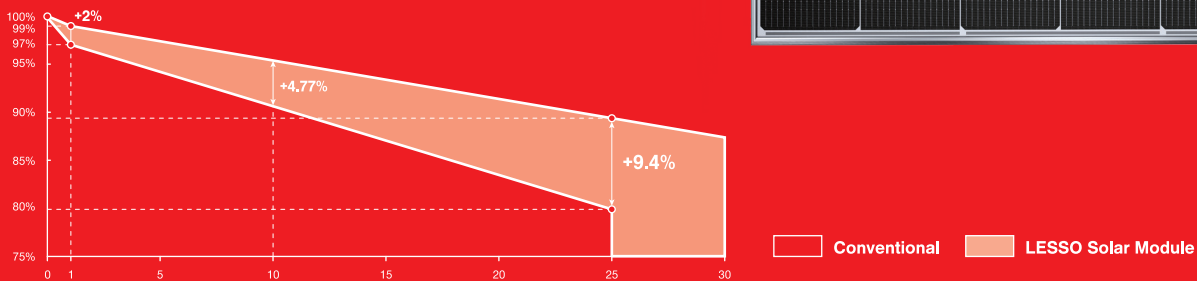
415W ~ 435W



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.



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
415W ~ 435W



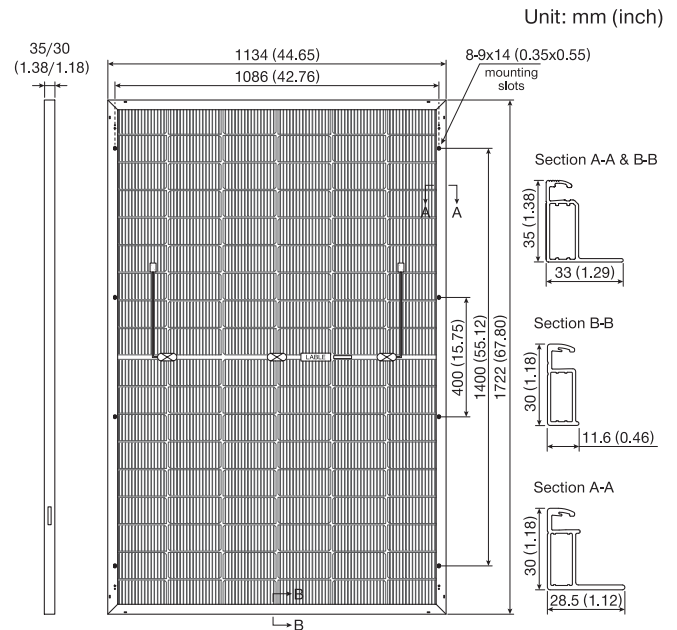
Power Output Tolerance
0W ~ +5W



Maximum Efficiency
22.28%

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	1722×1134×35/30mm (67.80×44.65×1.38/1.18inches)
Weight	24.1kg (53.13lbs) (35mm (1.38 inches)) 23.1kg (50.93lbs) (30mm (1.18 inches))
Front Glass	2.0mm (0.08inches), highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² (IEC), 12 AWG(UL) portrait 450mm (17.72in) (+), 250mm (9.84in) (-), landscape 1200mm (47.24in) (+), 1200mm (47.24in) (-) or customized
Diode Quantity	3 pcs
Front side / Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs (35mm (1.38 inches)) / 36pcs (30mm (1.18 inches))
Per Container(40'HQ)	806pcs (35mm (1.38 inches)) / 936pcs (30mm (1.18 inches))

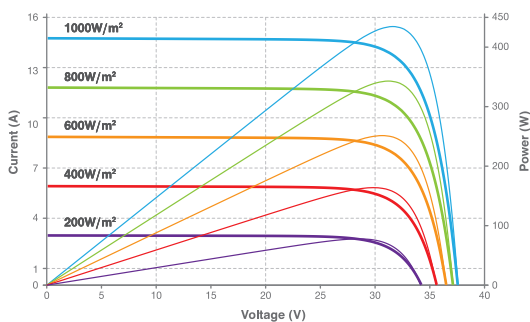


Electrical Performance Parameters

Model Type	415C(HBD)54(182)		420C(HBD)54(182)		425C(HBD)54(182)		430C(HBD)54(182)		435C(HBD)54(182)	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Nominal Max. Power P_{MAX} (W)	415	457	420	463	425	468	430	474	435	479
Max. Power Voltage V_{MP} (V)	31.18	31.24	31.42	31.48	31.65	31.71	31.88	31.94	32.11	32.17
Max. Power Current I_{MP} (A)	13.31	14.65	13.37	14.72	13.43	14.79	13.49	14.85	13.55	14.92
Open Circuit Voltage V_{OC} (V)	38.57	38.56	38.72	38.71	38.87	38.86	39.02	39.01	39.17	39.16
Short Circuit Current I_{SC} (A)	14.55	16.06	14.61	16.13	14.67	16.20	14.73	16.26	14.79	16.33
Module Efficiency (%)	21.25		21.51		21.76		22.02		22.28	

* STC: Irradiance 1000W/m² (0.65W/sq.in), Cell Temperature 25°C (77°F), Air Mass AM1.5; BNPI: Irradiance 1000W/m² (0.65W/sq.in) + ϕ * 135W/m² (0.09W/sq.in); Power measurement tolerance \pm 3%.

Current-Voltage & Power-Voltage Curve (435C)



Bifacial Output-rearside Power Gain

Gain	Maximum Power		P_{MAX} (W)	436	441	446	452	457
	Module Efficiency (%)	(%)						
5%	Maximum Power	P_{MAX} (W)	436	441	446	452	457	
	Module Efficiency	(%)	22.31%	22.58%	22.85%	23.12%	23.39%	
10%	Maximum Power	P_{MAX} (W)	457	462	468	473	479	
	Module Efficiency	(%)	23.38%	23.66%	23.94%	24.22%	24.50%	
25%	Maximum Power	P_{MAX} (W)	519	525	531	538	544	
	Module Efficiency	(%)	26.57%	26.89%	27.21%	27.53%	27.85%	

Temperature Characteristics

Nominal Module Operating Temperature	44 \pm 2°C (111.2 \pm 35.6°F)	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 (-40~+185°F)
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A