


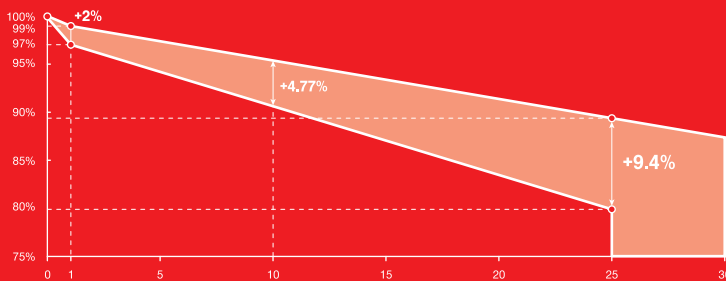
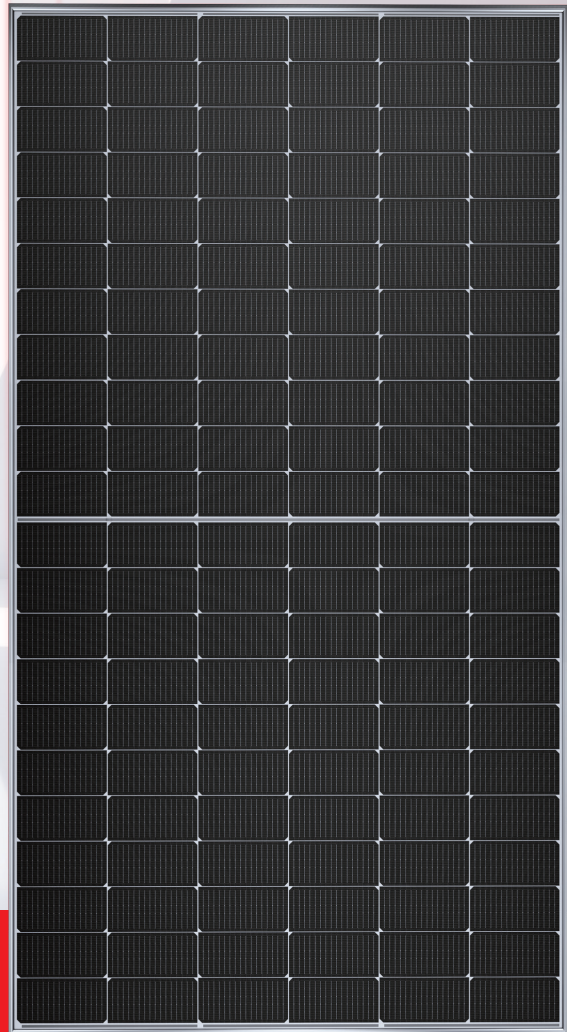
N series

182 N-type Bifacial Single Glass Module 510W ~ 535W

 **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 Single Glass Module (66)



Power Range
510W ~ 535W



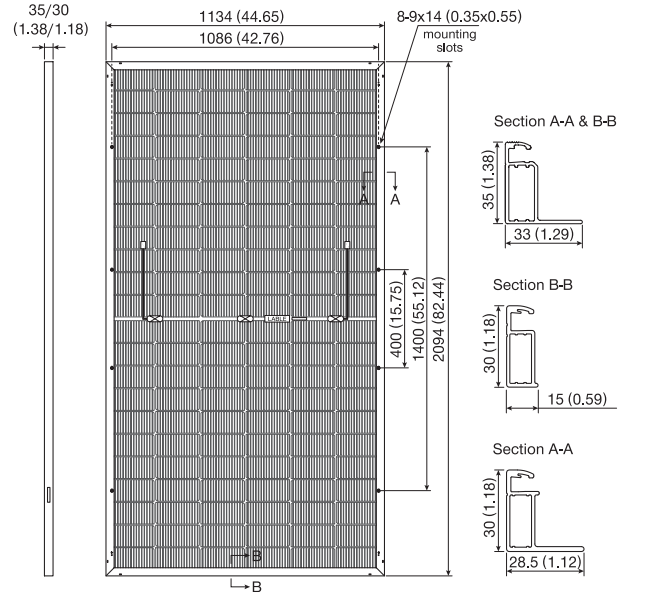
Power Output Tolerance
0W ~ +5W



Maximum Efficiency
22.53%

Structure Performance

Solar Cell Type	182mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	132pcs(6×22)
Module Dimension	2094×1134×35/30mm (82.44×44.65×1.38/1.18inches)
Weight	25.1kg (55.34lbs) (35mm (1.38 inches)) 23.8kg (52.47lbs) (30mm (1.18 inches))
Front Glass	3.2mm (0.13inches), 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)	682pcs (35mm (1.38 inches)) / 792pcs (30mm (1.18 inches))

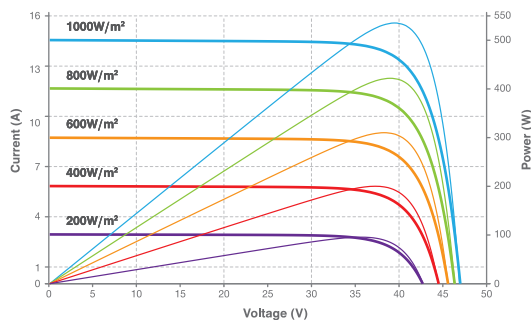


Electrical Performance Parameters

Model Type	510C(HWB)66(182)		515C(HWB)66(182)		520C(HWB)66(182)		525C(HWB)66(182)		530C(HWB)66(182)		535C(HWB)66(182)	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Nominal Max. Power P_{MAX} (W)	510	562	515	568	520	573	525	579	530	584	535	590
Max. Power Voltage V_{MP} (V)	38.29	38.37	38.50	38.58	38.70	38.78	38.89	38.97	39.09	39.17	39.29	39.37
Max. Power Current I_{MP} (A)	13.32	14.67	13.38	14.73	13.44	14.80	13.50	14.86	13.56	14.93	13.62	15.00
Open Circuit Voltage V_{OC} (V)	47.32	47.31	47.50	47.49	47.69	47.68	47.87	47.86	48.05	48.04	48.24	48.23
Short Circuit Current I_{SC} (A)	14.25	15.73	14.31	15.80	14.37	15.86	14.43	15.93	14.49	16.00	14.55	16.06
Module Efficiency (%)	21.48		21.69		21.90		22.11		22.32		22.53	

* 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 (535C)



Bifacial Output-rearside Power Gain

		P_{MAX} (W)	Power Gain					
			536	541	546	551	557	562
5%	Maximum Power P_{MAX} (W)	536	541	546	551	557	562	
	Module Efficiency (%)	22.55%	22.77%	22.99%	23.21%	23.44%	23.66%	
10%	Maximum Power P_{MAX} (W)	561	567	572	578	583	589	
	Module Efficiency (%)	23.63%	23.86%	24.09%	24.32%	24.55%	24.78%	
25%	Maximum Power P_{MAX} (W)	638	644	650	656	663	669	
	Module Efficiency (%)	26.85%	27.11%	27.37%	27.64%	27.90%	28.16%	

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