

LTH series

430 - 450W

**182-54 N-TOPCon Pure-black
Dual-glass Bifacial Module**



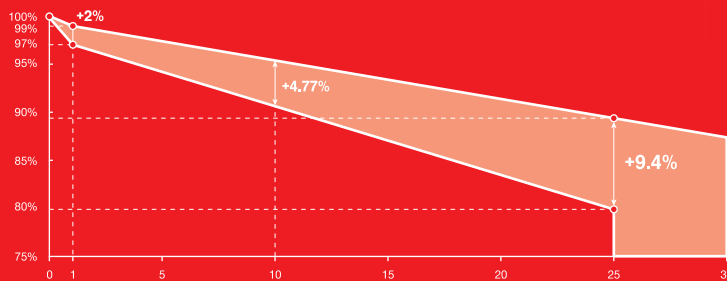
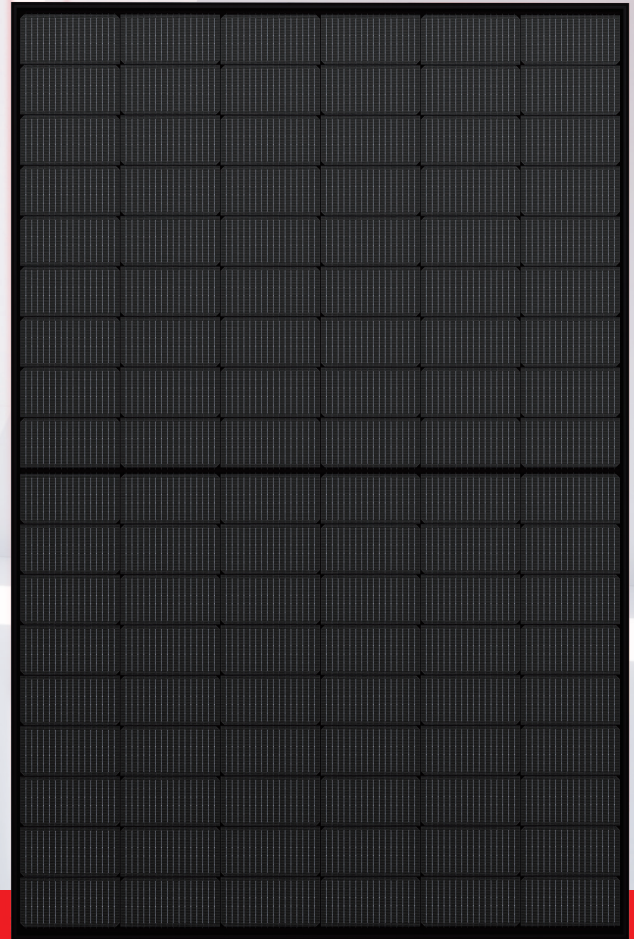
12 years product
workmanship warranty



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.



Highly-resistant black, crystal material, modernity to buildings.



Even cloudy or foggy days, better weak illumination response.



Zero LID, increase power generation.



High density packaging, improving energy density.



Higher power output, lower bos cost.



Multiple weather, resistance tests, wider applicability.



Double-sided generation, powerfully energy boost.

LESSO 182 N-TOPCon Pure-black Dual-glass Bifacial Module (54)



Power Range
430W ~ 450W

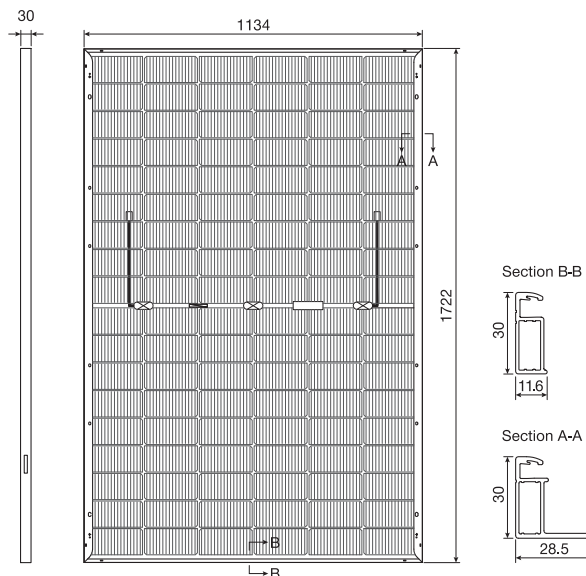


Maximum Efficiency
23.04%

(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 (Black)
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	PV-CO02-xy (Suzhou UKT New Energy Technology Co., Ltd.)
Per Pallet	36pcs
Per Container(40'HQ)	936pcs
Fire Rating	Class C



Electrical Performance Parameters

Model Type		430C(BBD)54(182)	435C(BBD)54(182)	440C(BBD)54(182)	445C(BBD)54(182)	450C(BBD)54(182)
Nominal Max. Power	P _{MAX} (W)	430	435	440	445	450
Max. Power Voltage	V _{MPP} (V)	31.69	31.92	32.15	32.38	32.61
Max. Power Current	I _{MPP} (A)	13.57	13.63	13.69	13.75	13.81
Open Circuit Voltage	V _{OC} (V)	37.15	37.35	37.55	37.75	37.95
Short Circuit Current	I _{SC} (A)	14.82	14.88	14.94	15.00	15.06
Module Efficiency	(%)	22.02	22.28	22.53	22.79	23.04

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5; Power measurement tolerance ±3%, Power Selection 0~+ 5W.

Bifacial Nameplate Irradiance I BNPI

Model Type		430C(BBD)54(182)	435C(BBD)54(182)	440C(BBD)54(182)	445C(BBD)54(182)	450C(BBD)54(182)
Nominal Max. Power	P _{MAX} (W)	475	480	485	490	495
Max. Power Voltage	V _{MPP} (V)	33.87	34.10	34.34	34.58	34.81
Max. Power Current	I _{MPP} (A)	14.03	14.08	14.13	14.18	14.23
Open Circuit Voltage	V _{OC} (V)	39.14	39.35	39.56	39.77	39.98
Short Circuit Current	I _{SC} (A)	15.42	15.48	15.55	15.61	15.67
BSI	I _{SC} (A)	16.15	16.21	16.30	16.36	16.42
BIFI		0.333	0.333	0.333	0.333	0.333

* BIFI: rear irradiance driven power gain yield.
BNPI: Irradiance Front side 1000W/m² Rear side 135W/m², Ambient Temperature 25°C, Air Mass AM 1.5.
BSI: Irradiance Front side 1000W/m² Rear side 300W/m², Ambient Temperature 25°C, Air Mass AM 1.5.

Performance at Low Irradiance

Model Type		430C(BBD)54(182)	435C(BBD)54(182)	440C(BBD)54(182)	445C(BBD)54(182)	450C(BBD)54(182)
Nominal Max. Power	P _{MAX} (W)	84	85	86	87	88
Max. Power Voltage	V _{MPP} (V)	30.95	31.18	31.40	31.63	31.85
Max. Power Current	I _{MPP} (A)	2.72	2.73	2.75	2.76	2.77
Open Circuit Voltage	V _{OC} (V)	35.35	35.54	35.73	35.92	36.11
Short Circuit Current	I _{SC} (A)	2.98	2.99	3.00	3.02	3.03

* Performance at low irradiance: Irradiance 200W/m², Cell Temperature 25°C, Air Mass AM1.5; Power measurement tolerance ±3%.

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~+70(TH98)°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

Bifaciality Coefficient

Tolerance/ϕIsc	80.00±4%
Tolerance/ϕVoc	99.00±3%
Tolerance/ϕPmax	80.00±5%

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LESSO Solar

Data contained in these specifications is subject to change without notice.

Made in China and Indonesia