LESSO

182 N-TopCon Mono Half-cell Module

460W ~ 485W

12 years product workmanship warranty

30 years linear power output warranty

1st year power degradation no more than **1**%
Subsequent annual power degradation no more than **0.40**%

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Power Range	Power Output Tolerance	Maximum Efficiency
460W ~ 485W	0W ~ + 5W	22.4%

Features and Benefits

10-30% Additional Power Generation
30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.

Better Weak Illumination Response
Higher power output even under low-light environments like on cloudy or foggy days.

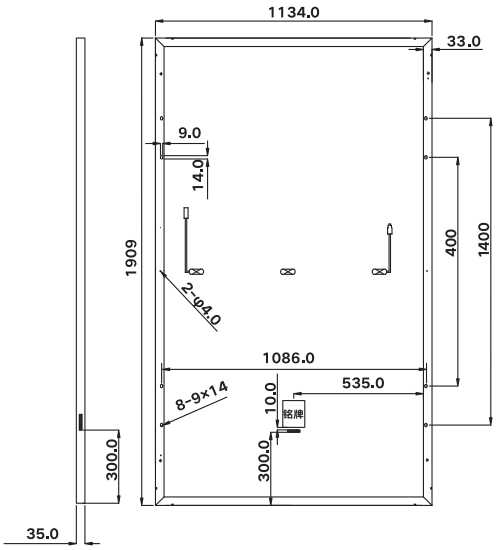
ZERO LID (Light Induced Degradation)
N-type solar cell has no LID naturally which can increase power generation.

Better Temperature Coefficient
Higher power generation under working conditions, thanks to passivating contact cell technology.

Lower LCOE
Higher bifaciality, higher power output and lower BOS cost.

Wider Applicability
More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area.

(Unit: mm)



Electrical Performance Parameters | STC

Model Type		460C(HPM) 60(182)	465C(HPM) 60(182)	470C(HPM) 60(182)	475C(HPM) 60(182)	480C(HPM) 60(182)	485C(HPM) 60(182)
Nominal Max. Power	Pmax(W)	460	465	470	475	480	485
Max.imum Power Voltage	Vmp(V)	34.86	35.02	35.18	35.35	35.51	35.67
Max.imum Power Current	Imp(A)	13.20	13.28	13.36	13.44	13.52	13.60
Open Circuit Voltage	Voc(V)	42.01	42.18	42.34	42.50	42.67	42.73
Short Circuit Current	Isc(A)	13.95	14.03	14.11	14.19	14.27	14.35
Module Efficiency	(%)	21.25	21.48	21.71	21.94	22.17	22.40
Power Output Tolerance	(W)	0~+5W					

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

Electrical Performance Parameters | NMOT

Model Type		460C(HPM) 60(182)	465C(HPM) 60(182)	470C(HPM) 60(182)	475C(HPM) 60(182)	480C(HPM) 60(182)	485C(HPM) 60(182)
Nominal Max. Power	Pmax(W)	346	350	354	358	362	366
Max.imum Power Voltage	Vmp(V)	32.77	32.96	33.15	33.34	33.52	33.71
Max.imum Power Current	Imp(A)	10.56	10.62	10.68	10.74	10.80	10.86
Open Circuit Voltage	Voc(V)	39.97	40.13	40.29	40.45	40.61	40.77
Short Circuit Current	Isc(A)	11.28	11.35	11.42	11.49	11.56	11.63

* NMOT: Irradiance 800W/m², Cell Temperature 20°C, Wind Speed 1m/s.
* Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm N-TopCon Mono Cell
Solar Cell Arrangement	120pcs(6×20)
Module Dimension	1909×1134×35mm
Weight	23.2kg
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	31pcs
Per Container(40'HQ)	744pcs

Temperature Characteristics

Nominal Module Operating Temperature	44±2℃
Temperature Coefficient (Isc)	+0.043%
Temperature Coefficient (Voc)	-0.25%
Temperature Coefficient (Pmax)	-0.30%

Maximum Parameters

Working Temperature	-40~85℃
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	25A

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