



# LESSO


## 182 N-TopCon Mono Half-cell Module

**510W ~ 535W**



 **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%**



# LESSO 182 N-TopCon Mono Half-cell Module



Power Range  
**510W ~ 535W**



Power Output Tolerance  
**0W ~ + 5W**



Maximum Efficiency  
**22.53%**

## 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

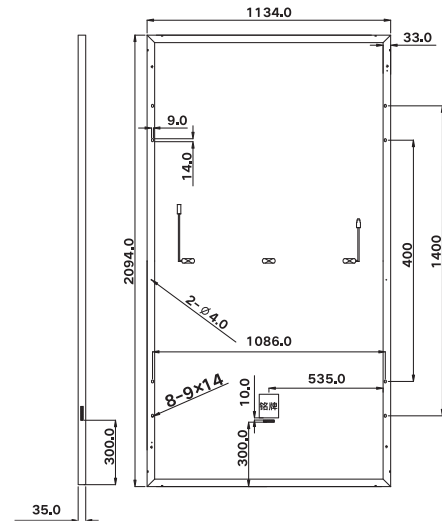
Higher bifaciality, higher power output and lower BOS cost.



### Wider Applicability

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

(Unit: mm)



## Electrical Performance Parameters | STC

Model Type		510C(HPM) 66(182)	515C(HPM) 66(182)	520C(HPM) 66(182)	525C(HPM) 66(182)	530C(HPM) 66(182)	535C(HPM) 66(182)
Nominal Max. Power	P <sub>max</sub> (W)	510	515	520	525	530	535
Maximum Power Voltage	V <sub>mp</sub> (V)	38.41	38.55	38.70	38.84	38.98	39.11
Maximum Power Current	I <sub>mp</sub> (A)	13.28	13.36	13.44	13.52	13.60	13.68
Open Circuit Voltage	V <sub>oc</sub> (V)	46.16	46.21	46.26	46.31	46.36	46.41
Short Circuit Current	I <sub>sc</sub> (A)	14.01	14.09	14.17	14.25	14.33	14.41
Module Efficiency	(%)	21.48	21.69	21.90	22.11	22.32	22.53
Power Output Tolerance	(W)	0~+5W					

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

\* Power measurement tolerance ±3%.

## Electrical Performance Parameters | NMOT

Model Type		510C(HPM) 66(182)	515C(HPM) 66(182)	520C(HPM) 66(182)	525C(HPM) 66(182)	530C(HPM) 66(182)	535C(HPM) 66(182)
Nominal Max. Power	P <sub>max</sub> (W)	383	387	391	395	399	403
Maximum Power Voltage	V <sub>mp</sub> (V)	36.24	36.41	36.58	36.75	36.92	37.08
Maximum Power Current	I <sub>mp</sub> (A)	10.57	10.63	10.69	10.75	10.81	10.87
Open Circuit Voltage	V <sub>oc</sub> (V)	43.73	43.87	44.01	44.15	44.29	44.43
Short Circuit Current	I <sub>sc</sub> (A)	11.35	11.42	11.49	11.56	11.63	11.70

\* NMOT: Irradiance 800W/m<sup>2</sup>, 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	132pcs(6×22)
Module Dimension	2094×1134×35mm
Weight	25.1kg
Front Glass	3.2mm, highly transparent tempered glass with anti-reflective coating
Back Sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm <sup>2</sup> , portrait <sup>400mm(+)</sup> / <sub>200mm(+)</sub> , landscape <sup>1400mm(+)</sup> / <sub>1400mm(-)</sub> Length can be customized
Diode Quantity	3 pcs
Front side/Rear side	5400pa/2400pa
Connector	MC4 Compatible
Per Pallet	31pcs
Per Container(40'HQ)	682pcs

## Temperature Characteristics

Nominal Module Operating Temperature	44±2°C
Temperature Coefficient (I <sub>sc</sub> )	+0.043%
Temperature Coefficient (V <sub>oc</sub> )	-0.25%
Temperature Coefficient (P <sub>max</sub> )	-0.30%

## Maximum Parameters

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

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