LESSO

LESSO GROUP
STOCK CODE: 2128.HK

N-TopCon series

210R N-TopCon Monofacial Module

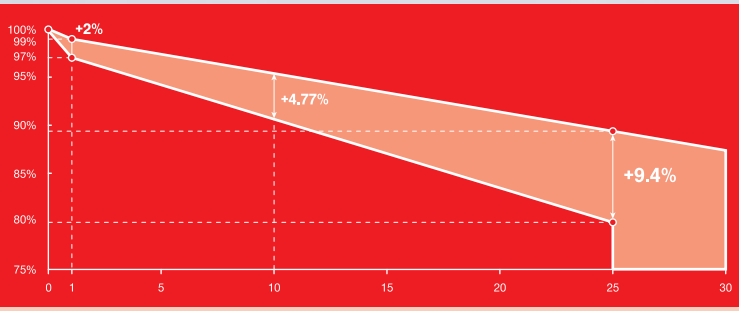
590W ~ 625W

12 years product workmanship warranty

30 years linear power output warranty

1% 1st-year degradation

0.40% annual degradation



FEATURES AND BENEFITS

- MBB Half-cut Cell Technology, high light utilization rate, better power collection capacity.
- High-density interconnect technology, efficiency increased by 0.2~0.3%.
- Non-destructive cutting technology, avoid the damage of cutting surface, high-reliability.
- Perfectly matches the container size, the system cost is reduced by 0.1~0.15%.
- N-type solar cell has no LID which can increase power generation.
- By series and parallel design, to reduce the series RS, achieve higher power output and decrease BOS cost.

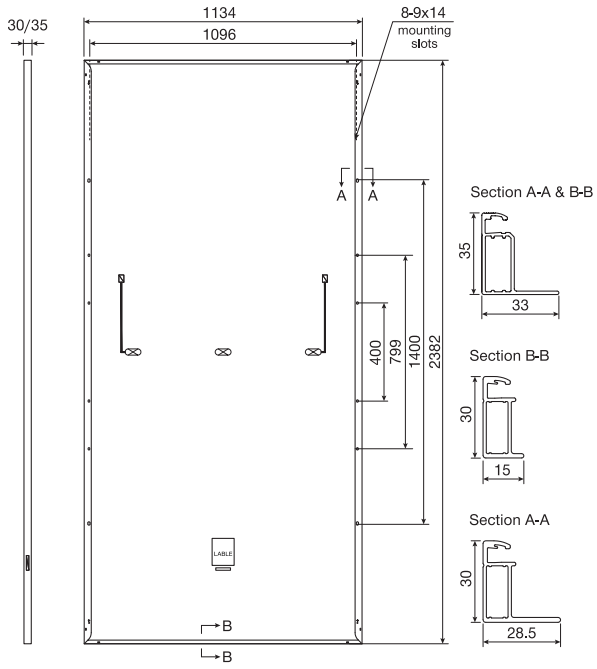
LESSO 210R N-TopCon Monofacial Module

Power Range	Power Output Tolerance	Maximum Efficiency
590W ~ 625W	0W ~ +5W	23.14%

Structure Performance

Solar Cell Type	210R N-TopCon Mono Cell (Half Cell)
Solar Cell Arrangement	132pcs(6×22)
Module Dimension	2382×1134×35mm/30mm
Weight	32.8kg(35mm) / 30.8kg(30mm)
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(35mm) / 36pcs(30mm)
Per Container(40'HQ)	558pcs(35mm) / 648pcs(30mm)

(Unit: mm)

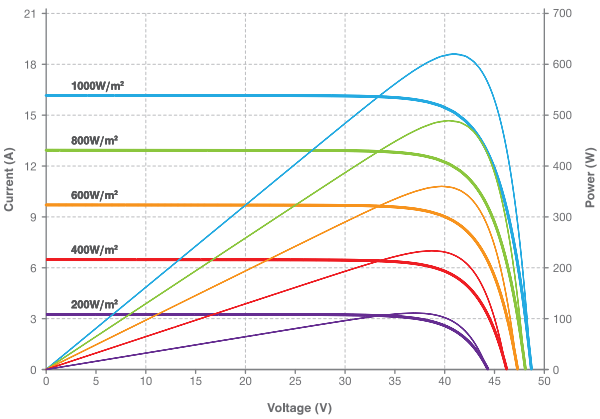


Electrical Performance Parameters | STC

Model Type		590C(HPM) 66(210R)	595C(HPM) 66(210R)	600C(HPM) 66(210R)	605C(HPM) 66(210R)	610C(HPM) 66(210R)	615C(HPM) 66(210R)	620C(HPM) 66(210R)	625C(HPM) 66(210R)
Nominal Max. Power	Pmax(W)	590	595	600	605	610	615	620	625
Max. Power Voltage	Vmp(V)	39.92	40.05	40.17	40.30	40.43	40.55	40.69	40.83
Max. Power Current	Imp(A)	14.78	14.86	14.94	15.02	15.09	15.17	15.24	15.31
Open Circuit Voltage	Voc(V)	47.90	48.04	48.17	48.30	48.44	48.57	48.70	48.83
Short Circuit Current	Isc(A)	15.62	15.71	15.79	15.88	15.97	16.06	16.14	16.23
Module Efficiency	(%)	21.84	22.03	22.21	22.40	22.58	22.77	22.95	23.14
Power Output Tolerance	(W)	0~+5W							

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

Current-Voltage & Power-Voltage Curve (625C)



Electrical Performance Parameters | NMOT

Model Type		590C(HPM) 66(210R)	595C(HPM) 66(210R)	600C(HPM) 66(210R)	605C(HPM) 66(210R)	610C(HPM) 66(210R)	615C(HPM) 66(210R)	620C(HPM) 66(210R)	625C(HPM) 66(210R)
Nominal Max. Power	Pmax(W)	444	448	452	456	460	464	468	472
Max. Power Voltage	Vmp(V)	37.28	37.43	37.58	37.75	37.90	38.07	38.24	38.39
Max. Power Current	Imp(A)	11.91	11.97	12.03	12.08	12.14	12.19	12.24	12.30
Open Circuit Voltage	Voc(V)	45.45	45.58	45.71	45.83	45.96	46.09	46.22	46.35
Short Circuit Current	Isc(A)	12.60	12.67	12.75	12.82	12.89	12.97	13.04	13.12

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

Temperature Characteristics

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

Maximum Parameters

Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

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