LESSO

LESSO GROUP
STOCK CODE: 2128.HK

210 P-type series

210 P-type Bifacial Module

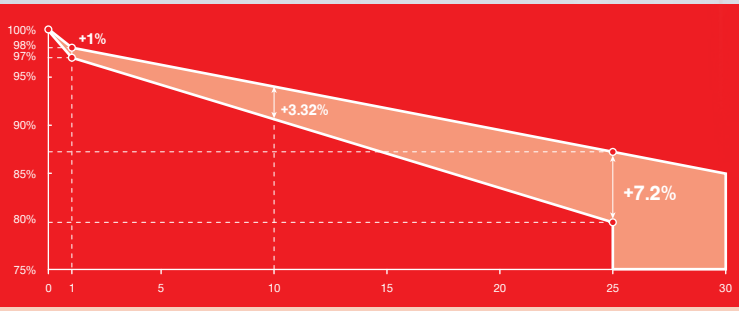
585W ~ 605W

12 years product workmanship warranty

30 years linear power output warranty

2% 1st-year degradation

0.45% annual degradation



FEATURES AND BENEFITS

- The application of multi-busbar (MBB) half-cut cell technology brings stronger resistance to shade and lower risk of hot spot.
- Strict control on raw materials and process optimization of high efficiency PERC ensure better resistance against PID of PV module.
- Through harsh weathering tests of sand, dust, salt mist, ammonia, etc., to get stronger weather resistance of outdoor environment.
- Double sides power output to reach higher comprehensive efficiency and get more profit.
- By series and parallel design, to reduce the series RS and achieve higher power output and lower BOS cost.
- Lower temperature coefficient and lower operating temperature can ensure higher power generation.
- Lower oxygen and carbon content result in lower LID.

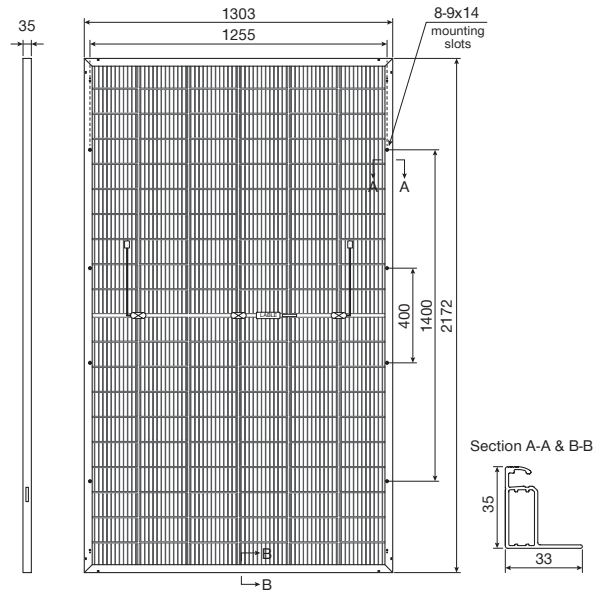
LESSO 210 P-type Bifacial Module

Power Range	Power Output Tolerance	Maximum Efficiency
585W ~ 605W	0W ~ +5W	21.38%

Structure Performance

Solar Cell Type	210mm Mono-crystalline (Half Cell)
Solar Cell Arrangement	120pcs(6×20)
Module Dimension	2172×1303×35mm
Weight	35.6kg
Front Glass	2.0mm, highly transparent tempered glass with anti-reflective coating
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)	558pcs

(Unit: mm)

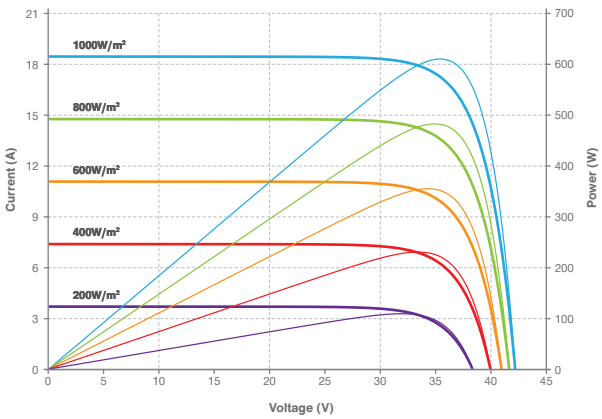


Electrical Performance Parameters | STC

Model Type		585D(HBD) 60(210)	590D(HBD) 60(210)	595D(HBD) 60(210)	600D(HBD) 60(210)	605D(HBD) 60(210)
Nominal Max. Power	Pmax(W)	585	590	595	600	605
Max. Power Voltage	Vmp(V)	33.93	34.13	34.33	34.53	34.73
Max. Power Current	Imp(A)	17.25	17.29	17.34	17.38	17.43
Open Circuit Voltage	Voc(V)	41.20	41.40	41.60	41.80	42.00
Short Circuit Current	Isc(A)	18.25	18.29	18.33	18.37	18.41
Module Efficiency	(%)	20.67	20.85	21.02	21.20	21.38
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 (610D)



Electrical Performance Parameters | NMOT

Model Type		585D(HBD) 60(210)	590D(HBD) 60(210)	595D(HBD) 60(210)	600D(HBD) 60(210)	605D(HBD) 60(210)
Nominal Max. Power	Pmax(W)	443	447	451	455	459
Max. Power Voltage	Vmp(V)	31.63	31.82	32.01	32.21	32.40
Max. Power Current	Imp(A)	14.01	14.05	14.09	14.13	14.17
Open Circuit Voltage	Voc(V)	38.80	39.00	39.20	39.40	39.60
Short Circuit Current	Isc(A)	14.71	14.75	14.79	14.83	14.87

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

Temperature Characteristics

Nominal Module Operating Temperature	44±2℃
Temperature Coefficient (Isc)	+0.048%
Temperature Coefficient (Voc)	-0.26%
Temperature Coefficient (Pmax)	-0.34%

Maximum Parameters

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

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