LESSO

182 MBB Mono Perc Half-cell Module

390W ~ 415W

12 years product workmanship warranty

25 years linear power output warranty

1st year power degradation no more than **2**%
Subsequent annual power degradation no more than **0.55**%

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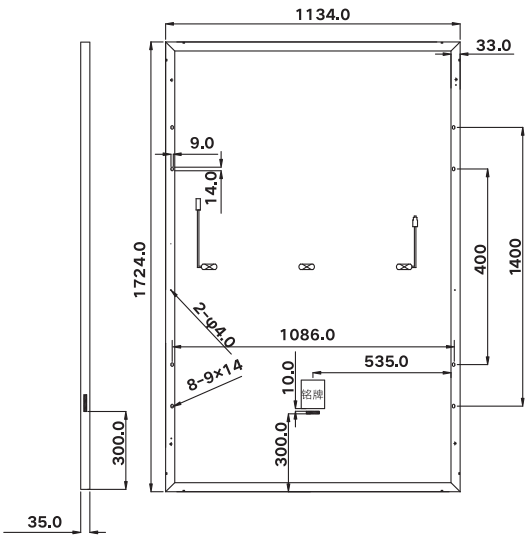
Power Range	Power Output Tolerance	Maximum Efficiency
390W ~ 415W	0W ~ + 5W	21.2%

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.
- Lower oxygen and carbon content result in lower LID.
- 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.

(Unit: mm)



Electrical Performance Parameters | STC

Model Type		390D(HPM) 54(182)	395D(HPM) 54(182)	400D(HPM) 54(182)	405D(HPM) 54(182)	410D(HPM) 54(182)	415D(HPM) 54(182)
Nominal Max. Power	Pmax(W)	390	395	400	405	410	415
Max.imum Power Voltage	Vmp(V)	30.55	30.75	30.95	31.15	31.35	31.55
Max.imum Power Current	Imp(A)	12.77	12.84	12.92	13.00	13.08	13.16
Open Circuit Voltage	Voc(V)	36.57	36.77	36.97	37.17	37.37	37.57
Short Circuit Current	Isc(A)	13.64	13.71	13.79	13.87	13.95	14.03
Module Efficiency	(%)	19.90	20.20	20.50	20.70	21.00	21.20
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		390D(HPM) 54(182)	395D(HPM) 54(182)	400D(HPM) 54(182)	405D(HPM) 54(182)	410D(HPM) 54(182)	415D(HPM) 54(182)
Nominal Max. Power	Pmax(W)	285	290	295	300	305	310
Max.imum Power Voltage	Vmp(V)	27.25	27.64	28.00	28.38	28.72	28.88
Max.imum Power Current	Imp(A)	10.46	10.50	10.54	10.58	10.62	10.54
Open Circuit Voltage	Voc(V)	34.53	34.68	34.83	34.98	35.13	35.28
Short Circuit Current	Isc(A)	10.84	10.94	11.70	11.19	11.24	11.32

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

Structure Performance

Solar Cell Type	182mm Mono-crystalline (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	1724×1134×35mm
Weight	21.8kg
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 PV cable, 300mm or customized length
Diode Quantity	3 pcs
Front side/Rear side	5400pa/2400pa
Connector	MC4 Compatible
Per Pallet	31pcs
Per Container(40'HQ)	806pcs

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	25A

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