

182 MBB Half-cell Mono Perc Module



Power Range
530W~550W



Power Tolerance
0W~ +5W



Maximum Efficiency
21.3%

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.



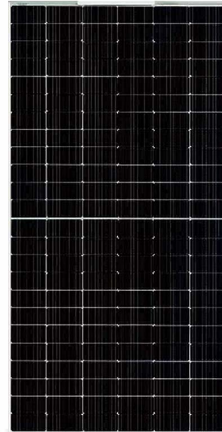
Lower oxygen and carbon content result in lower LID.



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.



First-Class Warranty



12 years product
workmanship warranty



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



25 years linear power
output warranty

Electrical Performance Parameters | STC

Model Type		530D(HPM) 72(182)	535D(HPM) 72(182)	540D(HPM) 72(182)	545D(HPM) 72(182)	550D(HPM) 72(182)
Nominal Max. Power	Pmax(W)	530	535	540	545	550
Maximum Power Voltage	Vmp(V)	41.20	41.40	41.60	41.80	42.00
Maximum Power Current	Imp(A)	12.87	12.92	12.98	13.04	13.10
Open Circuit Voltage	Voc(V)	49.02	49.22	49.42	49.62	49.82
Short Circuit Current	Isc(A)	13.74	13.79	13.85	13.91	13.97
Module Efficiency	(%)	20.60	20.70	20.80	21.10	21.30
Power 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		530D(HPM) 72(182)	535D(HPM) 72(182)	540D(HPM) 72(182)	545D(HPM) 72(182)	550D(HPM) 72(182)
Nominal Max. Power	Pmax(W)	395	400	405	410	415
Maximum Power Voltage	Vmp(V)	41.20	41.40	41.60	41.80	42.00
Maximum Power Current	Imp(A)	12.87	12.92	12.98	13.04	13.10
Open Circuit Voltage	Voc(V)	49.02	49.22	49.42	49.62	49.82
Short Circuit Current	Isc(A)	13.74	13.79	13.85	13.91	13.97

* 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	144pcs(6×24)
Module Dimension	2275×1134×35mm
Weight	28.0kg
Front Glass	3.2 mm, highly transparent tempered glass with anti-reflective coating
Back Sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² PV cable, 300mm or customized length
Diode Quantity	3
Front side/Rear side	5400pa/2400pa
Connector	MC4 Compatible
Per Pallet	31pcs
Per Container(40' HQ)	620pcs

Temperature Characteristics

Nominal Module Operating Temperature	44±2°C
Temperature Coefficient (Isc)	+0.07%
Temperature Coefficient (Voc)	-0.36%
Temperature Coefficient (Pmax)	-0.38%

Maximum Parameters

Working Temperature	-40~70°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	25A