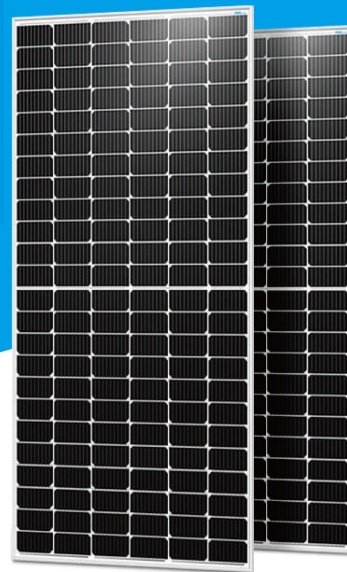




535-550 Watt

HALF-CELL MBB MONO PERC

Key Features



Multi Busbar Solar Cell

Stronger current collection ability, Special circuit design with much lower hot spot temperature;



PID Resistant

Excellent PID resistance at 96 hours (85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment;



Anti-Crack

Excellent anti-microcracking performance with more balanced interior stress;



Module efficiency up to 21.28%

Half cell structure brings low resistance characteristic, higher lifetime generating capacity, simultaneously lower annual power attenuation;



Low-Light Performance

Excellent power generation performance under Low-Light condition due to multi busbar; better shading response benefit from half cell module;

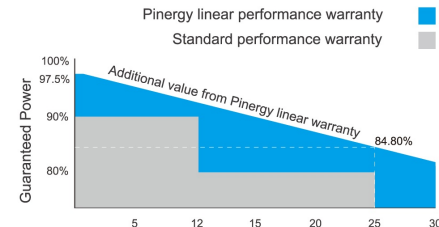


Strength and Durability

Certified for 5400Pa snow and 2400Pa Wind loads test;

Linear Performance Warranty

12 Years Product Warranty · 30 Years Linear Power Warranty



Certifications

- IEC 61215, IEC 61730, CE, CQC
- ISO9001: 2015: Quality management system
- ISO14001: 2015: Environmental management system
- ISO45001: 2018: Occupational health and safety management system



Electrical Specifications

Module Type	OSA-144M-535		OSA-144M-540		OSA-144M-545		OSA-144M-550	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated output (Pmp/Wp)	535	399	540	403	545	407	550	411
Rated voltage (Vmp/V)	41.0	38.2	41.2	38.4	41.4	38.6	41.6	38.8
Rated current (Imp/A)	13.05	10.44	13.11	10.49	13.17	10.54	13.23	10.58
Open circuit voltage (Voc/V)	49.2	46.1	49.4	46.3	49.6	46.4	49.8	46.6
Short circuit current (Isc/A)	13.81	11.13	13.87	11.18	13.93	11.23	13.99	11.28
Module efficiency (%)	20.70%		20.90%		21.09%		21.28%	
Power Tolerance (W)	0~+5							

Standard Test Condition (STC): Irradiance 1000W/m², Cell Temperature 25 °C, AM1.5

Nominal Module Operating Temperature (NOCT): Irradiance 800W/m², Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s

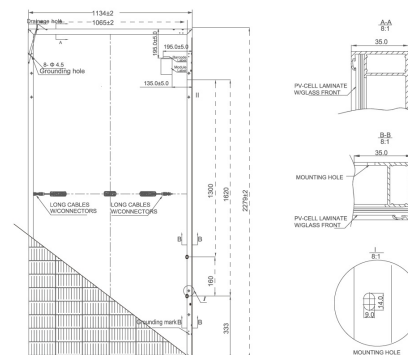
Mechanical Specifications

Cell Type	MBB MONO 182*91mm
No. of Cells	144 (6*24)
Dimension	2278*1134*30mm
Weight	29kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm², Length 300mm or customized
Connector type	MC4 compatible

Packaging Configurations

Per Pallet	36pcs
Per 20' GP	155 pcs
Per 40' HQ Container	720pcs

Engineering Drawings



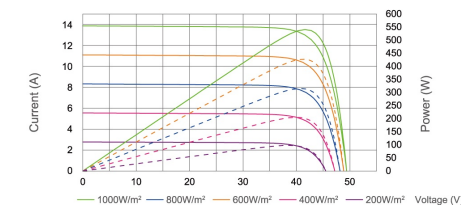
Temperature Characteristics

NOCT Temperature	44 °C ±2 °C
Temperature Coefficient (Pmax)	-0.36%/°C
Temperature Coefficient (Voc)	-0.28%/°C
Temperature Coefficient (Isc)	0.05%/°C

Maximum Ratings

Maximum system voltage (IEC)	1000 / 1500V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40 °C ~ +85 °C
Maximum series fuse rating	25A

Curve & Temperature Dependence



Power voltage current curve at different temperature

