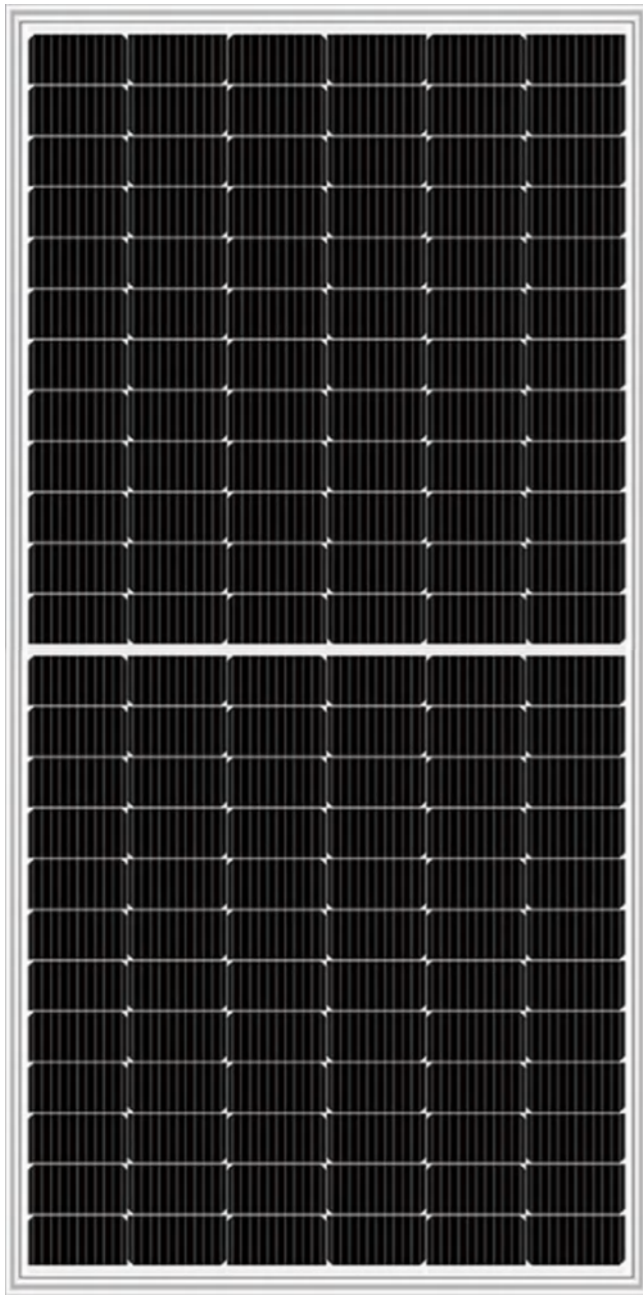





HALF CELL MONO PERC
SOLAR PANEL
(535W-555W)





Features of Module


- 

Multiple Busbars (MBB)
Densely distributed grid lines, uniform load, multi-busbars design. Output power increased by more than 5W.
- 

Lossless cut
Lossless cutting technology, no mechanical damagesmooth cutting surface without burrs.Low cell cracking risks, micro-cracking is reduced by more than 50%.
- 

Half-cut
Current density is reduced by 1/2 Internal power loss reduced to 1/4 of conventional modules. Rated output power increased by 5~10W.
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New Welding Wire
Adopt round wire solder ribbon, low shading area. Multiple reflections of incident light, power increased by 1-2W.
- 

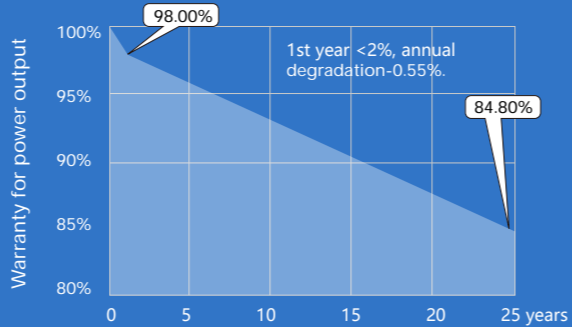
Shading, not compromising energy
Up-down symmetrical parallel module design Effectively reduce current mismatch due to shading.
- 

High-Density Encapsulation Technology
Adopts advanced high-density encapsulation technology to ensure the perfect balance of efficiency and reliability Module efficiency increased by more than 0.15%.

Linear Power Output Warranty

1515-year warranty for materials.

2525-year warranty for linear power output.



Quality Management System and Product Certification

IEC61215/61730、IEC62804(PID)、IEC61701(Salt)、IEC62716 (Ammonia)、IEC60068-2-68(Sand)
ISO 9001:2015/quality management system
ISO 14001:2015/ environmental management system
ISO 45001:2018/occupation health safety management system
ISO 50001:2011/ energy management system
IEC TS 62941—2016/ PV industry quality management system



Product Data Sheet

ELECTRICAL CHARACTERISTICS (STC)

Module type: ANM	535	540	545	550	555
Maximum power·Pm (W)	535	540	545	550	555
Open circuit voltage·Voc (V)	49.4	49.5	49.7	49.8	50
Short circuit current Isc (A)	13.78	13.85	13.92	13.98	14.04
Voltage at maximum power point·Vm (V)	41.5	41.7	41.8	42.0	42.1
Current at maximum power point·Im (A)	12.90	12.97	13.04	13.12	13.19
Module efficiency·n (%)	20.9	21.1	21.3	21.5	21.7

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum power·Pm (W)	400	404	407	411	415
Open circuit voltage·Voc (V)	46.4	46.5	46.7	46.8	47.0
Short circuit current Isc (A)	11.14	11.20	11.25	11.31	11.35
Voltage at maximum power point·Vm (V)	38.6	38.7	38.8	39.0	39.1
Current at maximum power point·Im (A)	10.38	10.43	10.49	10.56	10.61

* STC: Irradiation 1000W/m²; AM1.5; environmental temperature 25°C; tested according to EN 60904-3;
* NMOT: irradiation 800W/m²; wind speed 1m/s; environmental temeoature 20°C
* Pm tolerance: 0~+5W ; power test uncertainty: ±3%; Voc[V], Isc[A], Vm[V] and Im[A] test tolerance: +3%

MECHANICAL PARAMETERS

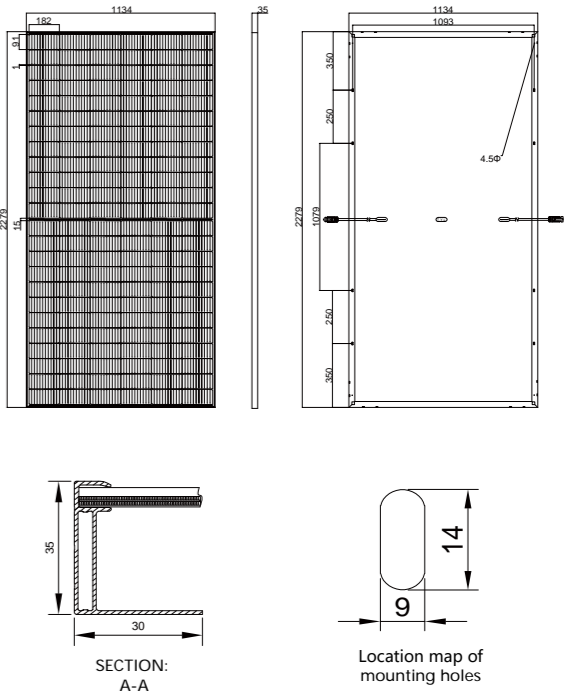
Size	2278x1134x30mm (LxWxH)
Weight	27.3kg
Front glass	3.2mm toughened glass
Cell	Monocrystalline PERC 182x91mm, 72*2 pcs
Backplate	High weather resistance
Frame	Anodic alumina profile
Junction box	IP68, TUV, 3diodes
Cable	4mm², 300mm Wire length can be customized
Connector	MC4 compatible/original EVO2
Packaging mode	31pcs/pack;720pcs/40HQ

TEMPERATURE PARAMETERS

NMOT	42.30 °C (±2°C)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit current temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°C

MAXIMUM RATED PARAMETERS

Maximum system voltage (V)	DC1500/1000 (IEC)
Maximum fuse rated current (A)	20
Maximum front static load (Pa)	5400
Working temperature (°C)	-40~+85
Hail resistance	Maximum diameter 25mm, impact speed 23m/s



I-V Curve

