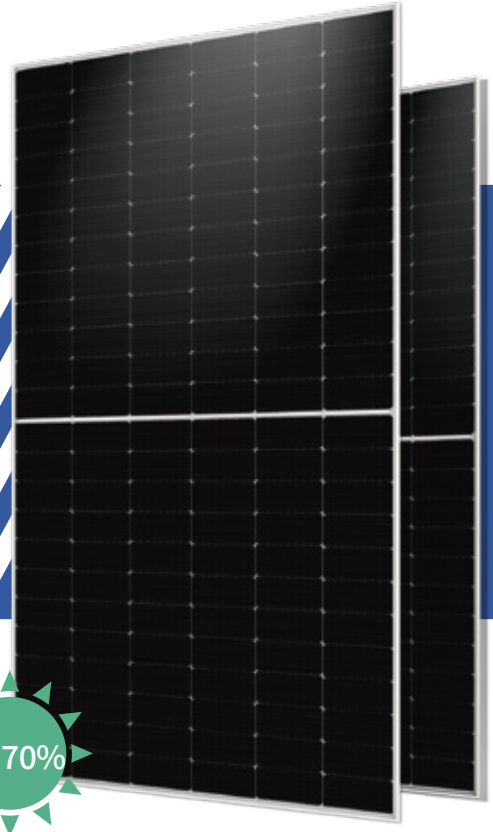


GC-144M(182)


540-560 Watt


HALF-CELL MONO PERC




21.70%


Key Features

- 

Multi Busbar Solar Cell
The special circuit design greatly reduces the hot spot temperature;
- 

Anti-Crack
Excellent micro-cracking resistance, more uniform internal stress;

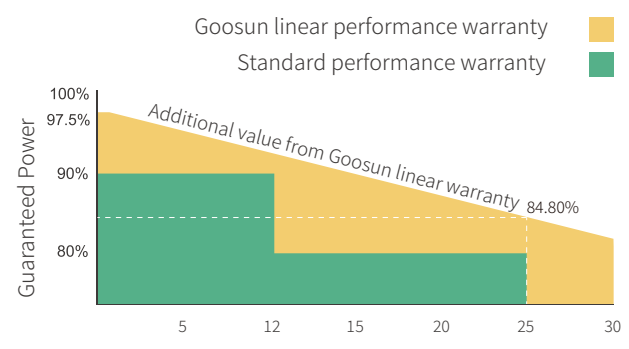
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Anti PID
PID Resistant
Excellent PID tolerance at 96 hours (85 ° C /85%) and can also be improved to meet higher standards in particularly harsh environments;
- 

Module efficiency up to 21.70%
The half-cell structure brings low resistance characteristics, higher lifetime power generation capacity, and reduced annual power attenuation;

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	GC144M-540		GC144M-545		GC144M-550		GC144M-555		GC144M-560	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power(Pmax)	540	403.9	545	407.7	550	411.1	555	414.8	560	418.6
Open circuit Voltage(Voc)	49.50	46.53	49.65	46.68	49.80	46.82	49.95	46.97	50.10	47.11
Short circuit current (Isc/A)	13.86	11.22	13.92	11.26	13.98	11.31	14.04	11.35	14.10	11.40
Voltage at maximum power (Vmpp)	41.65	38.69	41.8	38.83	41.95	38.97	42.10	39.11	42.25	39.25
current Maximum power(Imp)	12.98	10.44	13.05	10.50	13.12	10.56	13.19	10.61	13.26	10.67
Module efficiency (%)	20.92%		21.12%		21.30%		21.50%		21.70%	
Power Tolerance (W)	0~+5									

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

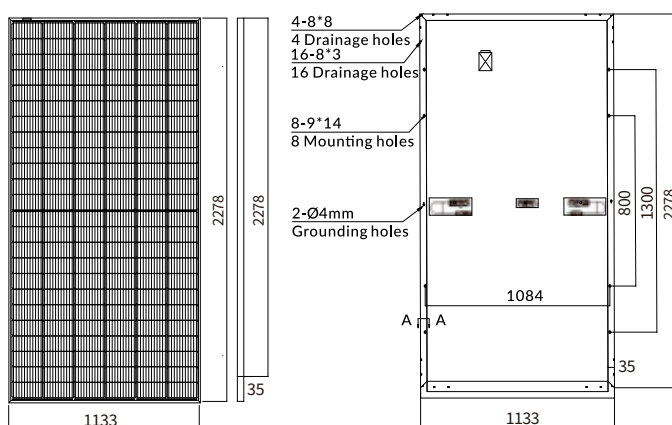
Mechanical Specifications

Cell Type	MONO
No. of Cells	144 (6×24)
Dimension	2278x1133x35mm
Weight	27kg
Glass	3.2mm, high permeability, AR coated thermally strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68,3diodes
Output Cables	4mm ² , Length 300mm or customized
Connector type	MC4 compatible

Packaging Configurations

Per Pallet	31 pcs
Per 40' HQ Container	620 pcs

Engineering Drawings



Temperature Characteristics

NOCT Temperature	44°C±2°C
Temperature Coefficient (Pmax)	-0.340%/°C
Temperature Coefficient (Voc)	-0.265%/°C
Temperature Coefficient (Isc)	+0.050%/°C

Maximum Ratings

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

I-V Curve

