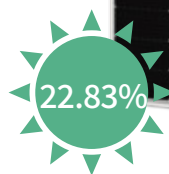
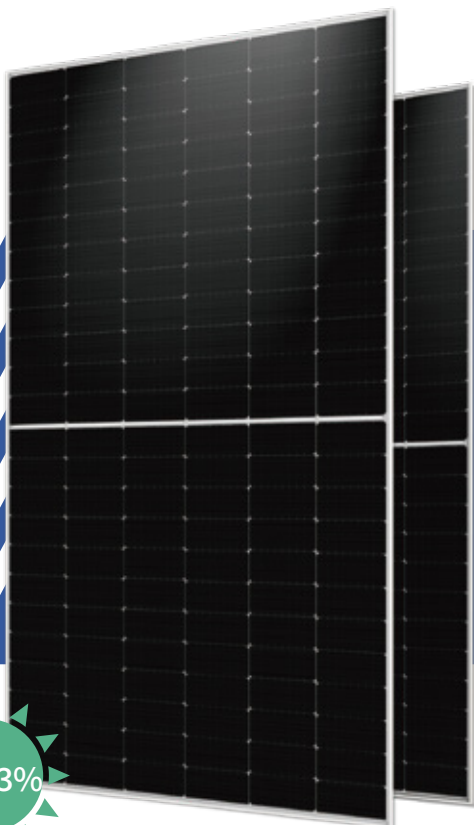


GC-144N(182)

570-590 Watt

HALF-CELL MONO TOPCON



Key Features



Multi Busbar Solar Cell

The special circuit design greatly reduces the hot spot temperature;



PID Resistant

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



Anti-Crack

Excellent micro-cracking resistance, more uniform internal stress;

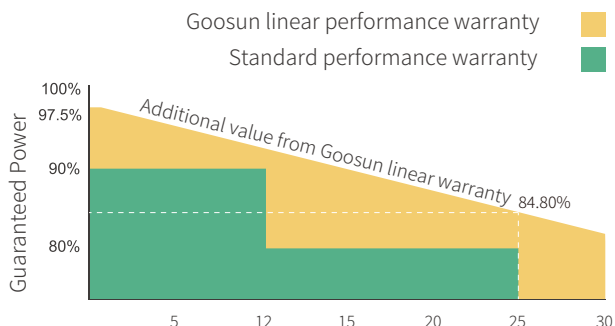


Module efficiency up to 22.83%

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	GC-144N-570		GC-144N-575		GC-144N-580		GC-144N-585		GC-144N-590	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power(Pmax)	570	426	575	430	580	433	585	437	590	441
Open circuit Voltage(Voc)	51.91	48.74	52.06	48.88	52.21	49.02	52.36	49.16	52.51	49.30
Short circuit current (Isc/A)	14.07	11.36	14.14	11.42	14.20	11.47	14.27	11.52	14.33	11.57
Voltage at maximum power (Vmpp)	43.76	39.93	43.91	40.07	44.06	40.20	44.21	40.34	44.36	40.47
current Maximum power(Impp)	13.03	10.68	13.10	10.73	13.17	10.78	13.24	10.84	13.31	10.89
Module efficiency (%)	22.10%		22.30%		22.50%		22.60%		22.83%	
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.

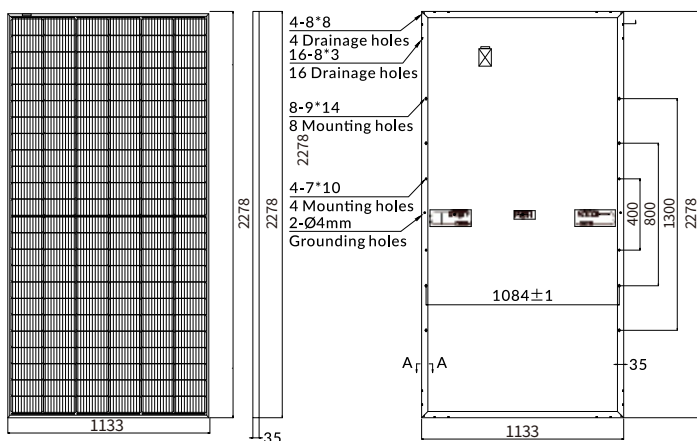
Mechanical Specifications

Cell Type	TOPCON
No. of Cells	144(6*24)
Dimension	2278*1133*35mm
Weight	27.2kg
Glass	3.2mm, high permeability, AR coated thermally strengthened glass
Frame	Anodized aluminum 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	45°C±2°C
Temperature Coefficient(Pmax)	-0.290%/°C
Temperature Coefficient(Voc)	-0.230%/°C
Temperature Coefficient(Isc)	0.050%/°C

Maximum Ratings

Maximum system voltage	1500V DC (IEC)
Snow / Wind	5400Pa/2400Pa
Operating Temperature	-40°C~ +85°C
Maximum series fuse rating	30A

I-V Curve

