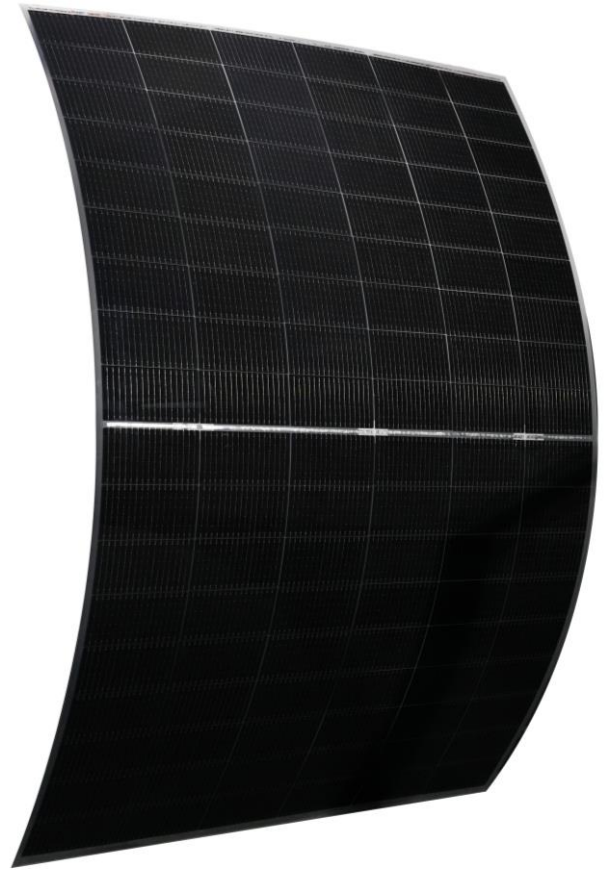


Solmax

Flexibility N-type -MONO-108



N-Technology

N-type modules using Tunnel Oxide Passivating Contacts (TOPCon) technology have lower LID/LeTID attenuation and excellent low light performance.



Flexibility

Solar modules using advanced manufacturing processes can bend up to 180 degrees.



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



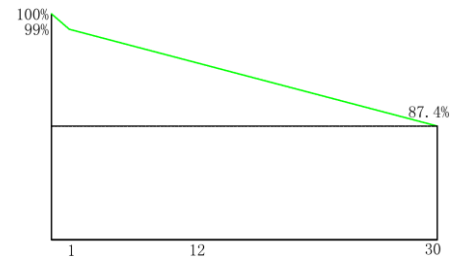
Light

Solar modules weight 2.6kg/m², wide range of application.



Stabilize

Meet the environmental test, low attenuation, J-Box performs module with an environmental protection rating to IP68.



12-year material warranty

30-year linear warranty

1% First year power degradation

0.4% Linear power decay

- IEC61215:2021 / IEC61730:2023
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environmental Management System
- ISO45001:2018: Occupational Health and Safety Management System



GEO-NM10-54F

MECHANICAL CHARACTERISTICS

Solar Cell	N-type monocrystalline
Number of cells	108 (54×2)
Dimension	1716×1128×3 mm
Weight	5.2 kg
Front	High quality composite material
Back	High quality composite material
Frame	/
Junction Box	IP68 Rated
Safety Protection Level	Class II
IEC Fire Performance	Class C
Connector	MC4/Others
Cable	4.0mm ² solar cable (+): 300 mm, (-): 300 mm; Or Customized

PACKAGING CONFIGURATION

Pallet Dimensions	1750×1140×1251 mm
Packing	40HC: 43pieces per pallet, 26 pallets per truck, 1118 pieces per container

ELECTRICAL SPECIFICATIONS (STC)

Maximum Power [Pmax /W]	425	430	435	440	445	450
Maximum Power Voltage [Vmp/V]	32.80	33.06	33.28	33.50	33.72	33.92
Maximum Power Cuurent [Imp/A]	12.97	13.03	13.09	13.15	13.21	13.27
Open-circuit Voltage[Voc /V]	39.25	39.36	39.47	39.59	39.70	39.81
Short Circuit Current[Isc/A]	14.08	14.16	14.22	14.28	14.34	14.40
Module efficiency(%)	22.0	22.2	22.5	22.7	23.0	23.2
Power Tolerance (W)	0 ~ + 3%					
Temprature Coefficient (Pmax)	-0.30%/°C					
Temprature Coefficient (Voc)	-0.25%/°C					
Temprature Coefficient (Isc)	0.046%/°C					

ELECTRICAL SPECIFICATIONS(BNPI)

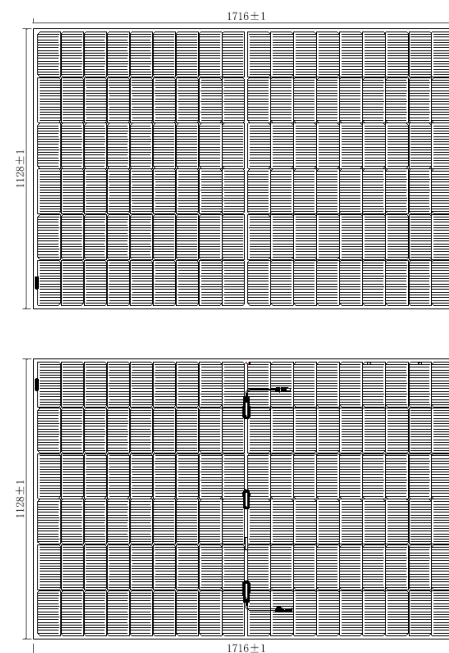
Maximum Power [Pmax /W]	465	470	475	480	485	490
Open-circuit Voltage[Voc /V]	39.25	39.36	39.47	39.59	39.70	39.81
Short Circuit Current[Isc/A]	15.49	15.58	15.64	15.71	15.77	15.84
Bifacial test conditions (BNPI)	Light intensity: front 1000W/m ² , back 135W/m ² , ambient temperature 25°C, atmospheric quality 1.5					

OPERATING PARAMETERS

Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500VDC (IEC)
Maximum Series Fuse Rating	30 A
Bifacility	φVoc: 98±3 %, φIsc: 80±3 %, φPmax: 80±3 %

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

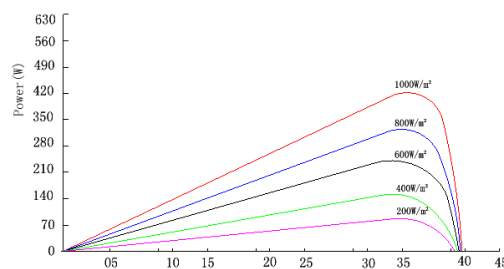
Dimensions



*For specific dimensions and tolerance ranges, please refer to the corresponding component drawings.

Curves

P-V Curves of PV Module GEO-NM10-54F440w



I-V Curves of PV Module GEO-NM10-54F440w

