



Solmax

Double Glass N-type -MONO-120



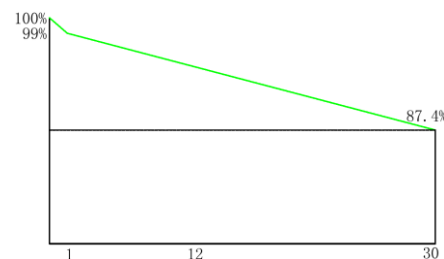
N-Technology

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



Bifacial power

Bifacial power generation gain increases with backside exposure to light, significantly reducing LCOE.



12-year material workmanship 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



SMBB Technology

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



Load capacity

The complete assembly is certified to a maximum test static load of 5400Pa on the front and 2400Pa on the back.



PID Resistance

Through the cell production technology optimization and material control to minimize the decline caused by the PID phenomenon

GEO-NG12-60D

MECHANICAL CHARACTERISTICS

Solar Cell	N-type monocrystalline
Number of cells	120 (60×2)
Dimension	2172×1303×35 mm
Weight	34.8 kg
Front Glass	2.0 mm, High-transmittance coated glass
Back Glass	2.0 mm, Half-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 Rated
Safety Protection Level	Class II
IEC Fire Performance	Class A
Connector	MC4/Others
Cable	4.0mm ² solar cable (+): 300 mm, (-): 300 mm; Or Customized

PACKAGING CONFIGURATION

Pallet Dimensions	1330×1130×2300 mm
Packing	40HC: 31pieces per pallet, 17 pallets per truck, 527 pieces per container

ELECTRICAL SPECIFICATIONS (STC)

Maximum Power [Pmax /W]	610	615	620	625	630
Maximum Power Voltage [vmpp/V]	35.80	36.01	36.22	36.43	36.64
Maximum Power Current [Imp/A]	17.04	17.08	17.12	17.16	17.20
Open-circuit Voltage[Voc /V]	42.50	42.70	42.90	43.10	43.30
Short Circuit Current[Isc/A]	18.36	18.40	18.44	18.48	18.52
Module efficiency(%)	21.6	21.7	21.9	22.1	22.3
Power Tolerance (W)	0 ~ + 3%				
Temperature Coefficient (Pmax)	-0.30%/°C				
Temperature Coefficient (Voc)	-0.25%/°C				
Temperature Coefficient (Isc)	0.046%/°C				

ELECTRICAL SPECIFICATIONS(BNPI)

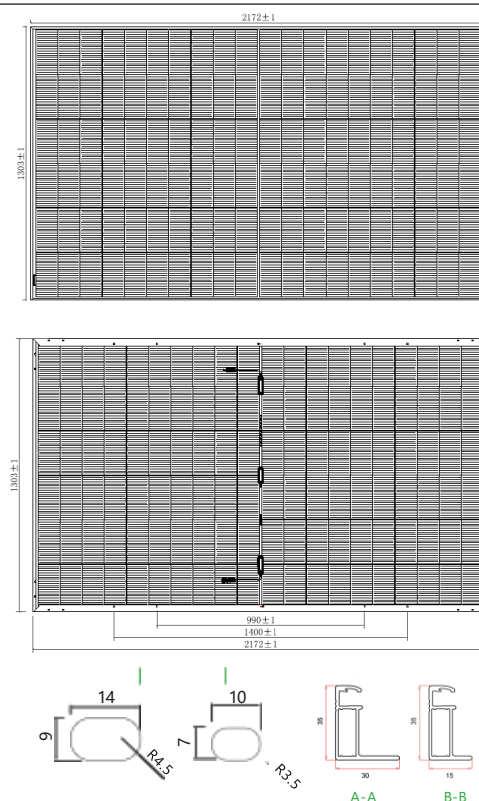
Maximum Power [Pmax /W]	670	675	680	685	690
Open-circuit Voltage[Voc /V]	42.50	42.70	42.90	43.10	43.30
Short Circuit Current[Isc/A]	20.20	20.24	20.28	20.33	20.37
Bifacial test conditions (BNPI)	Light intensity: front 1000W/m ² , back 135W/m ² , ambient temperature 25°C, atmospheric quality 1.5				

OPERATING PARAMETERS

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

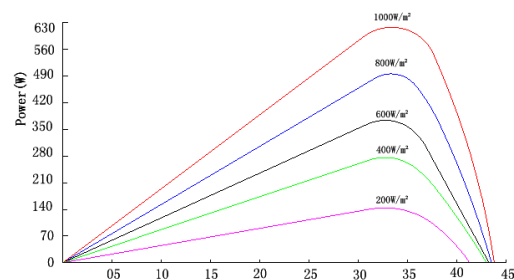
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

Dimensions



Curves

P-V Curves of PV Module GEO-NG12-60D620w



I-V Curves of PV Module GEO-NG12-60D620w

