



Sunmax

Single Glass P-type -MONO-120



High efficiency

Advanced solar cell technology ensures the high module efficiency up to 21.2%.



Bifacial power

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



MBB Technology

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



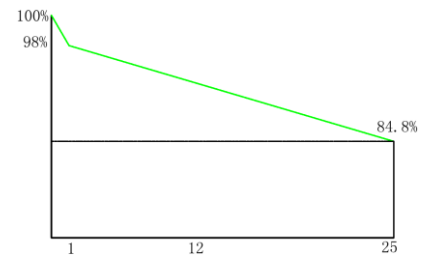
Load capacity

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



12-year
material
workman
ship
warranty

25-year
linear
warranty

2% First
year
power
degradation

0.55%
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-PM10-60S

MECHANICAL CHARACTERISTICS

Solar Cell	P-type monocrystalline
Number of cells	120 (60×2)
Dimension	1909×1134×30 mm
Weight	22.7 kg
Front Glass	3.2 mm, High-transmittance coated glass
Back Board	Transparent white mesh
Frame	Anodized aluminum alloy
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	1950×1130×1251 mm
Packing	40HC: 36pieces per pallet, 24 pallets per truck, 864 pieces per container

ELECTRICAL SPECIFICATIONS (STC)

Maximum Power [Pmax /W]	440	445	450	455	460
Maximum Power Voltage [vmpp/V]	34.71	34.93	35.16	35.38	35.60
Maximum Power Current [Imp/A]	12.68	12.74	12.80	12.86	12.92
Open-circuit Voltage[Voc /V]	41.50	41.73	41.96	42.18	42.40
Short Circuit Current[Isc/A]	13.43	13.49	13.55	13.61	13.67
Module efficiency(%)	20.3	20.6	20.8	21.0	21.2
Power Tolerance (W)	0 ~ + 3%				
Temperature Coefficient (Pmax)	-0.36%/°C				
Temperature Coefficient (Voc)	-0.304%/°C				
Temperature Coefficient (Isc)	0.05%/°C				

ELECTRICAL SPECIFICATIONS(BNPI)

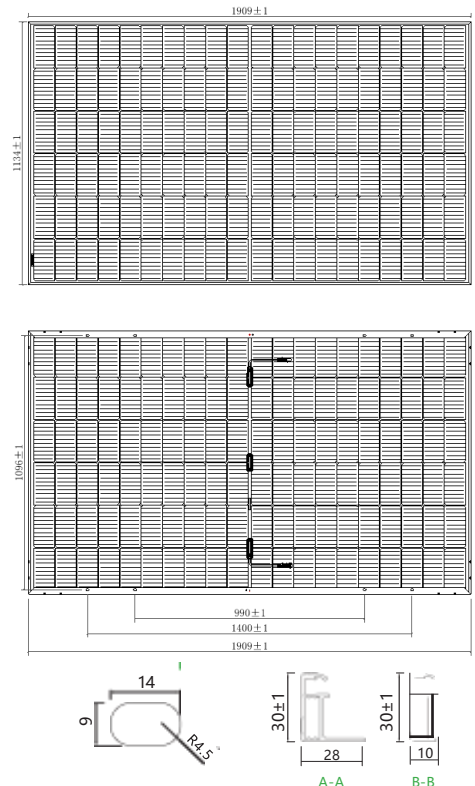
Maximum Power [Pmax /W]	485	490	495	500	505
Open-circuit Voltage[Voc /V]	41.50	41.73	41.96	42.18	42.40
Short Circuit Current[Isc/A]	14.77	14.84	14.91	14.97	15.04
Bifacial test conditions (BNPI)	Light intensity: front 1000W/m ² , back 135W/m ² , ambient temperature 25°C, atmospheric quality 1.5				

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.

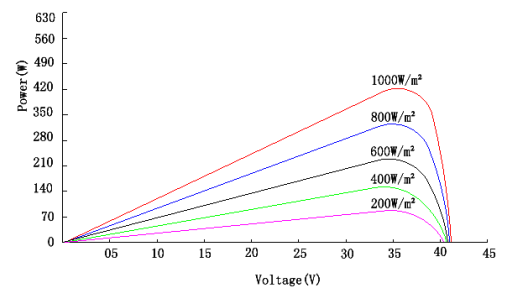
Dimensions



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

Curves

P-V Curves of PV Module GEO-PM10-60S450w



I-V Curves of PV Module GEO-PM10-60S450w

