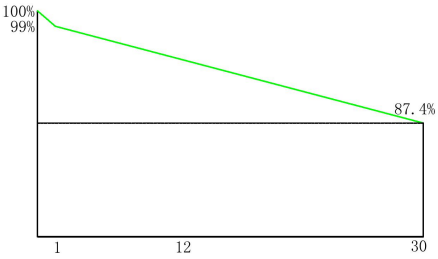
GEP-CfMcXXXNH
Double Glass N-type -MONO-120

485-500W

N-Technology
N-type modules using Tunnel Oxide Passivating Contacts (TOPCon) technology.

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



MBB Technology
Better light trapping and current collection to improvemodule 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.

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

GEP-CfMcNH

MECHANICAL CHARACTERISTICS

Solar Cell	N-type monocrystalline
Number of cells	120 (60×2)
Dimension	1909×1134×30 mm
Weight	27.0 kg
Front Glass	2.0 mm , High-transmittance coated glass
Back Glass	2.0 mm , Half-tempered glass
Frame	Anodized aluminum alloy
Safety Protection Level	Class II
IEC Fire Performance	Class A
Connector type	PV-ZPJ030A
Connector manufacturer	The 40th Institute of China Electronic Technology Group Corporation

PACKAGING CONFIGURATION

Pallet Dimensions	1950×1130×1251 mm
Packing	40HC: 36pieces per pallet, 24 pallets per truck, 864 pieces per container

ELECTRICAL SPECIFICATIONS (STC)

Model number	GEP-CfMc485NH	GEP-CfMc490NH	GEP-CfMc495NH	GEP-CfMc500NH
Maximum Power [Pmax /W]	485±3%	490±3%	495±3%	500±3%
Maximum Power Voltage [vmp/V]	37.26	37.40	37.56	37.68
Maximum Power Cuureent [Imp/A]	13.02	13.12	13.20	13.27
Open-circuit Voltage[Voc /V]	43.86±3%	43.98±3%	44.11±3%	44.23±3%
Short Circuit Current(Isc/A)	14.19±3%	14.27±3%	14.35±3%	14.40±3%
Module efficiency(%)	22.4	22.6	22.9	23.1
Power Tolerance (W)	0 ~ + 5			
Temprature Coefficient (Pmax)	-0.30%/°C			
Temprature Coefficient (Voc)	-0.25%/°C			
Temprature Coefficient (Isc)	0.046%/°C			

ELECTRICAL SPECIFICATIONS(BNPI)

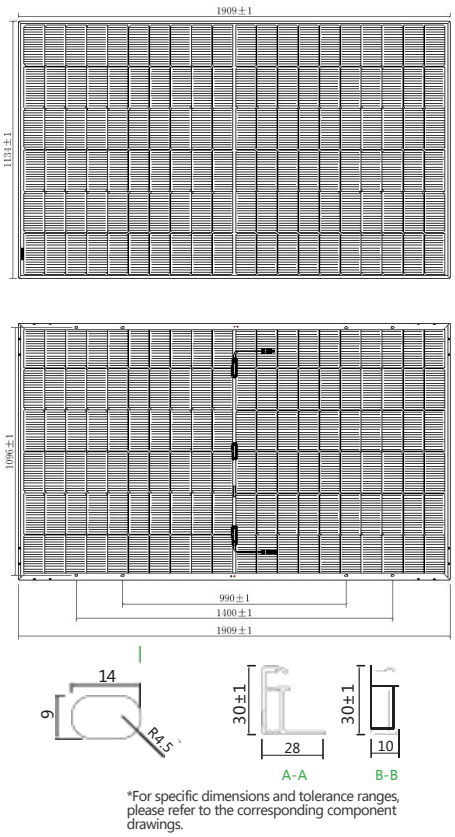
Maximum Power [Pmax /W]	530±3%	535±3%	540±3%	545±3%
Open-circuit Voltage[Voc /V]	43.86±3%	43.98±3%	44.11±3%	44.23±3%
Short Circuit Current(Isc/A)	15.61±3%	15.70±3%	15.79±3%	15.84±3%
Bifacial test conditions (BNPI)	Light intensity: front 1000W/㎡, back 135W/㎡, ambient temperature 25°C, atmospheric quality 1.5			

OPERATING PARAMETERS

Operational Temperature	-40°C ~ +85°C(T98max:70°C)
Maximum System Voltage	1500VDC (IEC)
Maximum Series Fuse Rating	30 A
Bifacility	φVoc: 100±3 %, φIsc: 80±5 %, φPmax: 80±5 %

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

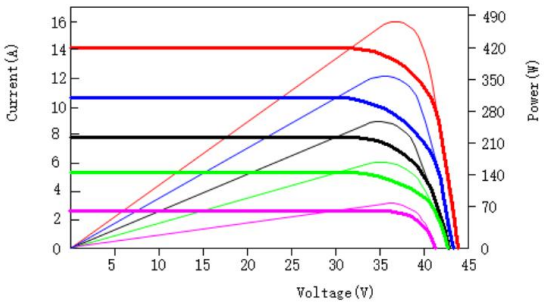
Dimensions



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

Curves

GEP-CfMc490NH



BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum Power [Pmax /W]	509±3%	515±3%	520±3%	525±3%
	Module efficiency STC(%)	23.5	23.8	24.0	24.3
15%	Maximum Power [Pmax /W]	558±3%	564±3%	569±3%	575±3%
	Module efficiency STC(%)	25.8	26.0	26.3	26.6
25%	Maximum Power [Pmax /W]	606±3%	613±3%	619±3%	625±3%
	Module efficiency STC(%)	28.0	28.3	28.6	28.9

Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and celtemperature of 25°C.

Note: Please read the safety and installation instructions before using the product. The company reserves the right of final interpretation. If there are any changes to the specifications in this datasheet, notice will be given separately.

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