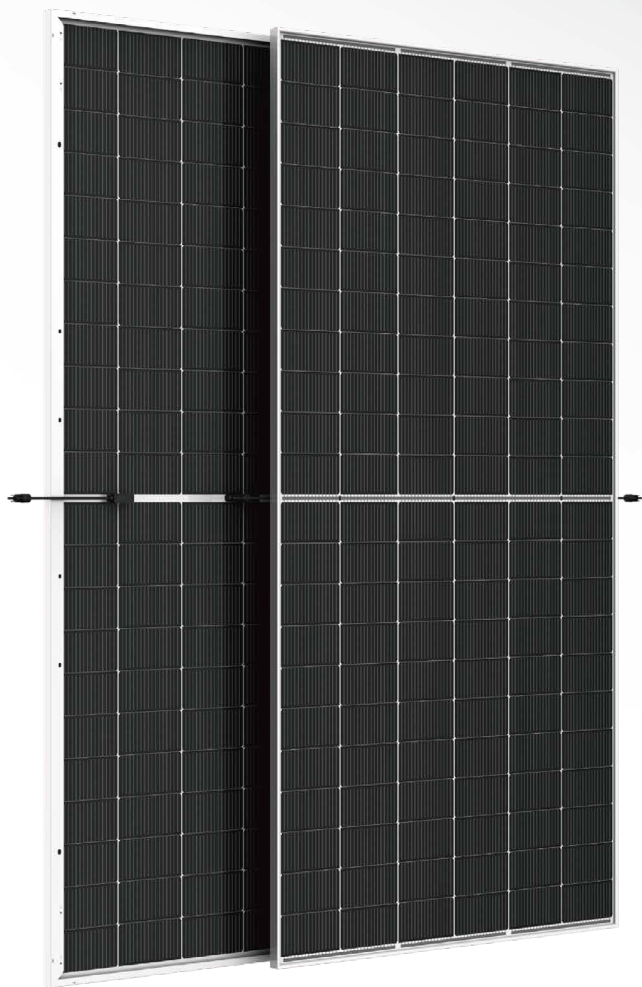




CHG ENSOL Efficient PV Module

N-TOPCon Technology

CHGMN66D2

N-type Mono High Efficiency
Double Glass Bifacial PV Module

620-645W

645W

Maximum
Power Output

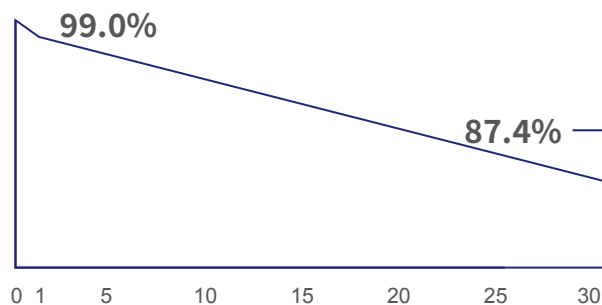
23.88%

Maximum
Module Efficiency

0~+5W

Positive power
tolerance

CHGMN66D2
Linear performance warranty



IEC61215(2016), IEC61730(2016)
ISO14001: 2015 Environment Management System
ISO9001: 2015: Quality Management System
ISO45001: 2018: Occupational health and safety management systems



Excellent Power Output

Adopting large-sized, highly efficient cell technology and leading manufacturing processes to effectively enhanced product power



Excellent Temperature Coefficient

The product has excellent temperature coefficient, outstanding outdoor power generation performance and longer lifespan



Ultra-multi-busbar Technology

Better light utilization and current collection capability, effectively improving product power output and reliability



No LeTID/LID

While achieving efficiency gains in N-type photovoltaic cells, virtually no LID loss



Excellent Irradiance Response

Superior weak-light power generation performance in environments such as early morning, evening, and cloudy conditions.



High Profitability

Effectively reducing the system's BOS costs, achieving lower cost of electricity, and increasing project return

1.0%
1st year
degradation

0.4%
2-30th annual
degradation

15 Year
material and
workmanship
warranty

30 Year
linear
warranty

Electrical Properties | STC*

Peak Power (Pmax/W)	620	625	630	635	640	645
MPP Voltage (Vmp/V)	41.06	41.20	41.34	41.48	41.61	41.75
MPP Current (Imp/A)	15.10	15.17	15.24	15.31	15.38	15.45
Open Circuit Voltage (Voc/V)	49.24	49.44	49.64	49.84	50.04	50.24
Short Circuit Current (Isc/A)	16.00	16.07	16.14	16.21	16.28	16.35
Module Efficiency (%)	22.95	23.14	23.32	23.51	23.69	23.88

*STC (Standard Test Conditions): Irradiance 1000 W/m², cell Temperature 25°C, AM 1.5

Mechanical Properties

Cell Type	N-type half cell
Number of Cells	132pcs(2*66)
Module Dimension	2382mm*1134mm*30mm
Weight	32.8kg
Front/back Glass (thickness)	2.0mm high-transmittance coated / 2.0mm heat-strengthened
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Output cables	TUV 1x4.0mm², +300mm/-200mm or Customized Length

Temperature Coefficient

Temperature coefficients of Pmax	-0.29% / °C
Temperature coefficients of Voc	-0.25% / °C
Temperature coefficients of Isc	+0.045% / °C
Nominal Module Operating Temperature	42±2 °C

Operating Properties

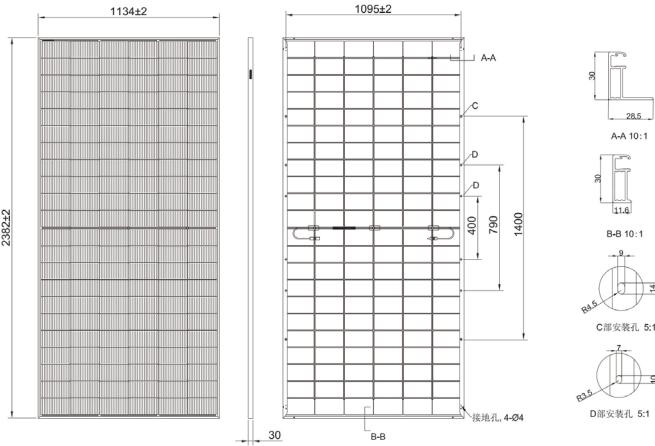
Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	35A
Power Tolerance	0~+5W
Bifaciality	80%±5%
Static load	Snow load 5400Pa Wind load 2400Pa
Packaging Configuration	36pcs/pallet, 720pcs/13m flatcar 36pcs/pallet, 864pcs/17.5m flatcar

Electrical Properties | BNPI*

Peak Power (Pmax/W)	687	693	698	704	709	715
MPP Voltage (Vmp/V)	41.07	41.20	41.35	41.49	41.61	41.76
MPP Current (Imp/A)	16.73	16.82	16.88	16.97	17.04	17.12
Open Circuit Voltage (Voc/V)	49.26	49.46	49.66	49.86	50.06	50.26
Short Circuit Current (Isc/A)	17.73	17.81	17.88	17.96	18.04	18.12

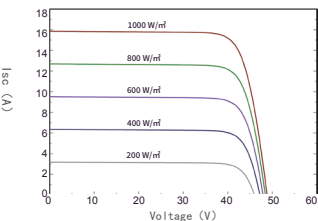
*Bifacial Test Conditions (BNPI): Front-side irradiance 1000W/m², back-side irradiance 135W/m², temperature 25°C, AM1.5

Engineering Drawings (unit:mm)

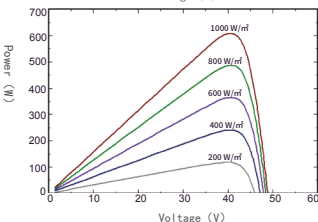


For specific dimensions and tolerance ranges, please refer to the corresponding component drawings.

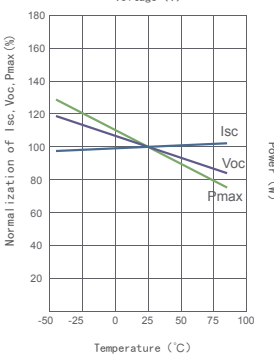
Characteristic Curves: CHGMN66D2



Current and Voltage Curves under Different Irradiations



Power and Voltage Curves under Different Irradiations



Temperature Curves of Isc, Voc, Pmax under Different Temperatures