

# CHG ENSOL Efficient PV Module

## N-TOPCon Technology

### CHGMN66D2

#### N-type Mono High Efficiency Double Glass Bifacial PV Module

# 600-625W

**625W**

Maximum  
Power Output

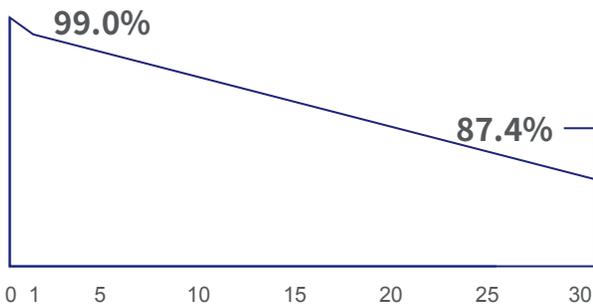
**23.21%**

Maximum  
Module Efficiency

**0~+5W**

Positive power  
tolerance

CHGMN66D2  
Linear performance warranty



#### 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



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



## Electrical Properties | STC\*

Peak Power (Pmax/W)	600	605	610	615	620	625
MPP Voltage (Vmp/V)	40.54	40.66	40.78	40.92	41.06	41.20
MPP Current (Imp/A)	14.80	14.88	14.96	15.03	15.10	15.17
Open Circuit Voltage (Voc/V)	48.44	48.64	48.84	49.04	49.24	49.44
Short Circuit Current (Isc/A)	15.70	15.78	15.86	15.93	16.00	16.07
Module Efficiency (%)	22.24	22.45	22.60	22.84	23.03	23.21

\*STC (Standard Test Conditions): Irradiance 1000 W/m<sup>2</sup>, 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	33.6kg
Front/back Glass (thickness)	2.0mm high-transmittance coated / 2.0mm heat-strengthened
Frame	Composite Frame
Junction Box	IP68
Output cables	TUV 1x4.0mm <sup>2</sup> , +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

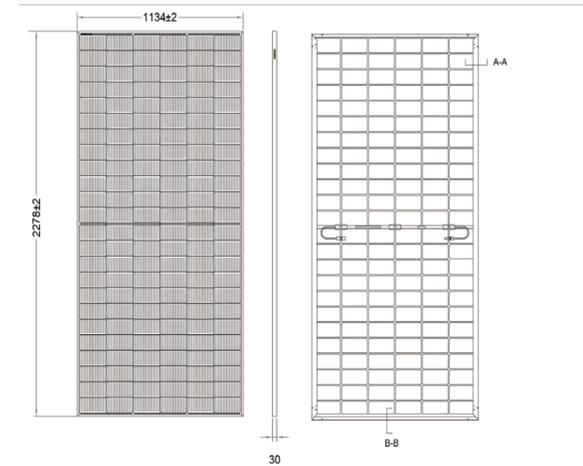
Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	30A
Power Tolerance	0~+5W
Bifaciality	80%±5%
Static load	Snow load 5400Pa Wind load 2400Pa
Packaging Configuration	37pcs/pallet, 740pcs/40-foot high cube container

## Electrical Properties | BNPI\*

Peak Power (Pmax/W)	456	460	464	468	472	475
MPP Voltage (Vmp/V)	38.19	38.36	38.51	38.68	38.85	38.97
MPP Current (Imp/A)	11.94	11.99	12.05	12.10	12.15	12.19
Open Circuit Voltage (Voc/V)	46.38	46.57	46.76	46.95	47.14	47.33
Short Circuit Current (Isc/A)	12.66	12.72	12.79	12.84	12.90	12.95

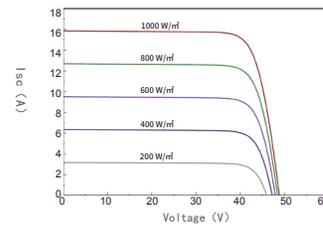
\*NMOT (Nominal Module Operating Temperature Conditions): front 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s. The test conditions take the front side as an example.

## Engineering Drawings (unit:mm)

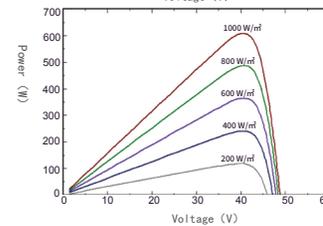


For specific dimensions and tolerance ranges, please refer to the corresponding component drawings.

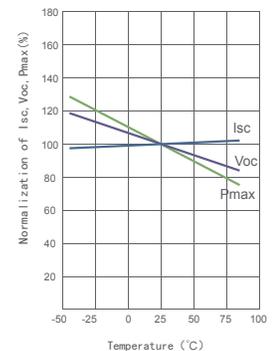
## Characteristic Curves: CHGMN66D2



Current and Voltage Curves under Different Irradiations



Power and Voltage Curves under Different Irradiations



Temperature Curves of Isc, Voc, Pmax under Different Temperatures