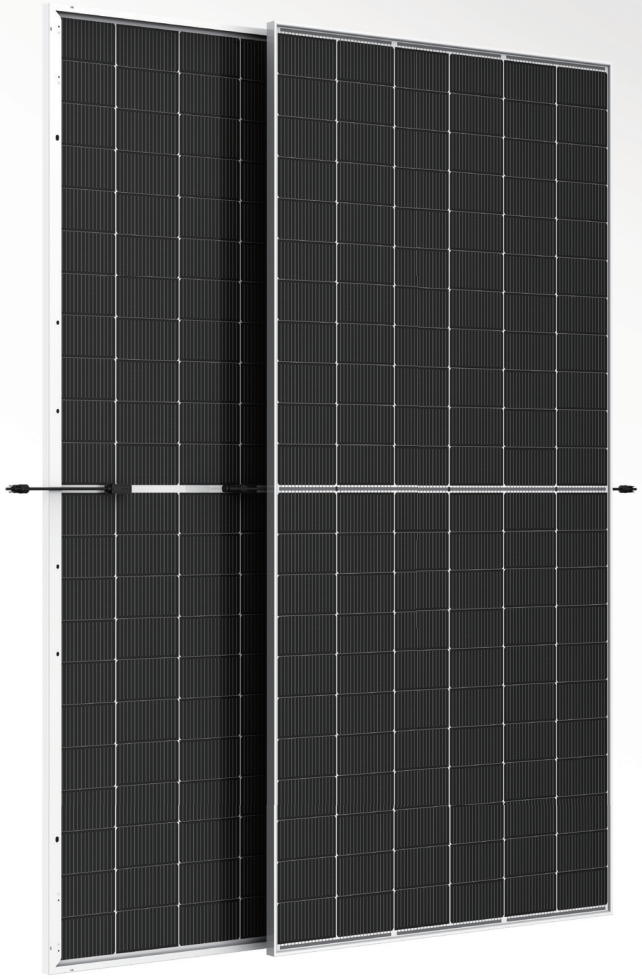
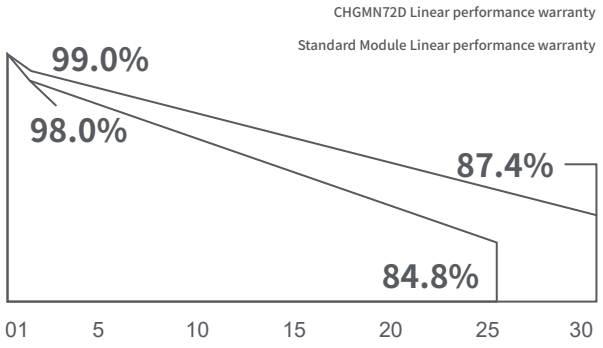
CHG EnSOL



Superior power warranty



N-TOPCon Technology

CHGMN72D

N-type Mono High Efficiency
Double Glass Bifacial PV Module

570-590W

590W	22.84%	0~+5W
Maximum Power Output	Maximum Module Efficiency	Positive power tolerance

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

Significant Rearside Power Generation Gain
The rearside of the module effectively utilizes the reflected and scattered light in the environment, the high rearside power gain can reduce the LCOE

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)
ISO14001:2015Environment Management System
ISO9001:2015: Quality Management System
ISO45001:2018: Occupational health and safety management systems

1.0%	0.4%	15 Year	30 Year
1st year degradation	Linear attenuation	Product warranty	Power warranty

Electrical Properties | STC*

Peak Power (Pmax/W)	570	575	580	585	590
MPP Voltage (Vmp/V)	43.58	43.73	43.88	44.02	44.17
MPP Current (Imp/A)	13.08	13.15	13.22	13.29	13.36
Open Circuit Voltage (Voc/V)	52.10	52.30	52.50	52.70	52.90
Short Circuit Current (Isc/A)	13.83	13.89	13.95	14.01	14.07
Module Efficiency (%)	22.07	22.26	22.45	22.65	22.84

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

Electrical Properties | NMOT*

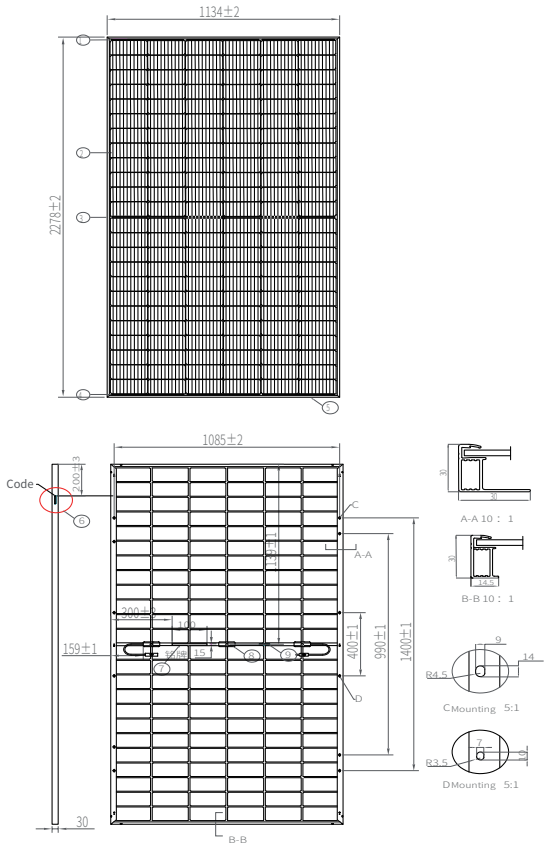
Peak Power (Pmax/W)	430	433	437	441	445
MPP Voltage (Vmp/V)	40.56	40.73	40.89	41.05	41.21
MPP Current (Imp/A)	10.59	10.64	10.69	10.74	10.79
Open Circuit Voltage (Voc/V)	39.60	39.75	39.90	40.05	40.20
Short Circuit Current (Isc/A)	11.16	11.21	11.26	11.31	11.36

*NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², ambient temperature 20°C; wind speed 1m/s

Mechanical Properties

Cell Type	n-type half cell
Number of Cells	144pcs(2*72)
Module Dimension	2278mm*1134mm*30mm
Weight	32kg
Front / Rear Glass	2.0mm/2.0mm
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Output cables	4.0mm², +300mm/-300mm or Customized Length

Engineering Drawings (unit:mm)



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)	-40OC~+85OC
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	36 pcs/pallet, 26 pallet/vehicle 936 piece/vehicle

Characteristic Curves:CHGMN72D