

N-TOPCon Technology

CHGMN78D

N-type Mono High Efficiency
Double Glass Bifacial PV Module

615-635W

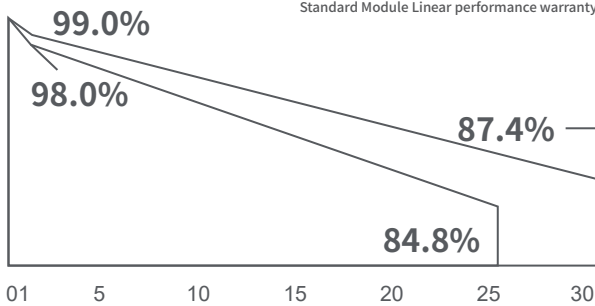
635W
Maximum
Power Output

22.72%
Maximum
Module Efficiency

0~+5W
Positive power
tolerance

Superior power warranty

CHGMN78D Linear performance warranty
Standard Module 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



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

1.0%
1st year
degradation

0.4%
Linear
attenuation

15 Year
Product
warranty

30 Year
Power
warranty

Electrical Properties | STC*

Peak Power (Pmax/W)	615	620	625	630	635
MPP Voltage (Vmp/V)	47.20	47.37	47.54	47.7	47.86
MPP Current (Imp/A)	13.03	13.09	13.15	13.21	13.27
Open Circuit Voltage (Voc/V)	56.69	56.82	56.95	57.08	57.21
Short Circuit Current (Isc/A)	13.68	13.74	13.8	13.86	13.92
Module Efficiency (%)	22.00	22.18	22.36	22.54	22.72

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

Electrical Properties | NMOT*

Peak Power (Pmax/W)	463	467	471	475	479
MPP Voltage (Vmp/V)	44.39	44.54	44.69	44.83	44.98
MPP Current (Imp/A)	10.44	10.49	10.54	10.59	10.64
Open Circuit Voltage (Voc/V)	42.72	42.82	42.92	43.02	43.11
Short Circuit Current (Isc/A)	10.31	10.35	10.40	10.44	10.49

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

机械参数

Cell Type	n-type half cell
Number of Cells	156pcs(2*78)
Module Dimension	2465mm*1134mm*30mm
Weight	34.6kg
Front / Rear Glass	2.0mm/2.0mm
Frame	Anodized Aluminum Alloy
Junction Box	IP68 (3 diodes)
Output cables	4.0mm ² , +300mm/-300mm or Customized Length

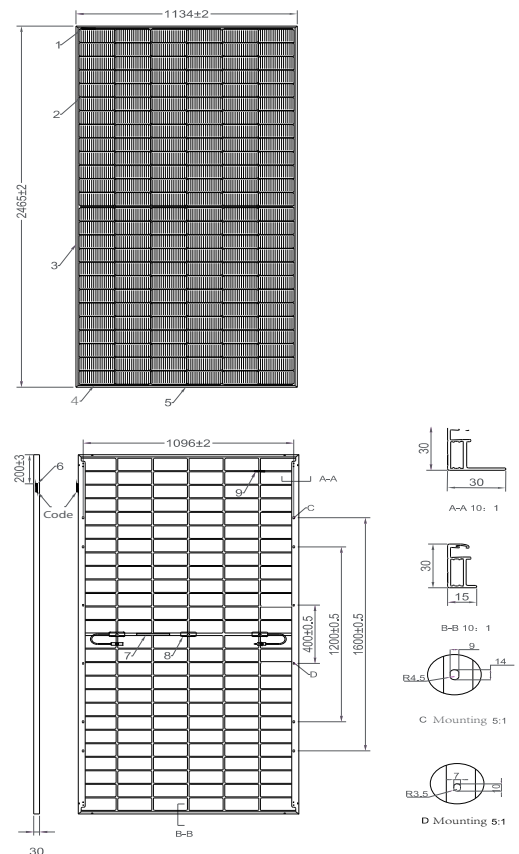
Temperature Coefficient

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

应用参数

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, 23 pallet/vehicle 828 piece/vehicle

Engineering Drawings (unit:mm)



Characteristic Curves:CHGMN78D

