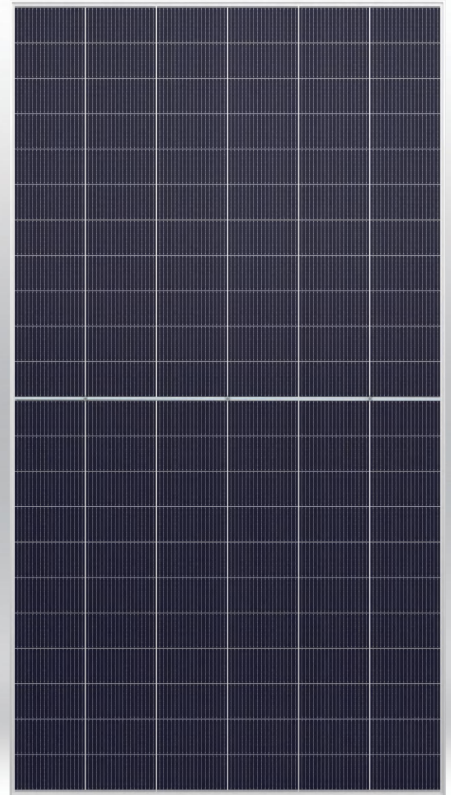


GCL

NH12/66GDF

690-720W

**Bifacial Dual Glass
Heterojunction Module**



720 W

Maximum Power Output

23.20%

Maximum Module Efficiency

0~+5W

Power Output Guarantee

GCL Delivers Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2-68)
- Long term reliability tests
- 2x100% EL inspection ensuring defect-free modules



Adopting a-si layer passivation to improve cell efficiency and module power



Natural symmetrical structure, bifaciality up to 95%

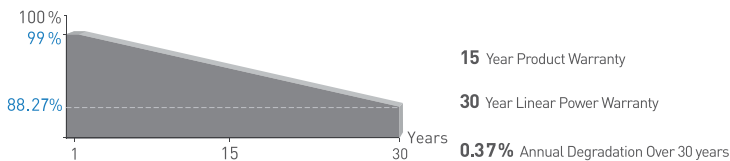


The power temperature coefficient is as low as $-0.24\%/^{\circ}\text{C}$, demonstrating outstanding high-temperature power generation performance



High water resistance, sealed with butyl rubber, waterproof, dustproof, and airtight, improving the weather resistance of modules

Linear Performance Warranty



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Large size silicon wafer module can reduce the cost of PV support bracket, combining manifolds, cable, land and so on, thus thinning the LCOE

* Please refer to GCL standard warranty for details

Additional Insurance Backed by Swiss RE

* Please refer to GCL for details



Electrical Specification (STC*)

Maximum Power	P _{max} [W]	690	695	700	705	710	715	720
Maximum Power Voltage	V _{mp} [V]	41.8	41.95	42.1	42.25	42.4	42.55	42.7
Maximum Power Current	I _{mp} [A]	16.51	16.57	16.63	16.69	16.75	16.81	16.87
Open Circuit Voltage	V _{oc} [V]	49.70	49.85	50.00	50.15	50.30	50.45	50.60
Short Circuit Current	I _{sc} [A]	17.31	17.37	17.43	17.49	17.55	17.61	17.67
Module Efficiency	(%)	22.2	22.4	22.5	22.7	22.9	23.0	23.2

* Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

BSTC

Maximum Power	P _{max} [W]	760.83	766.50	771.77	777.33	782.85	788.38	793.9
Maximum Power Voltage	V _{mp} [V]	41.85	42.00	42.15	42.30	42.45	42.60	42.75
Maximum Power Current	I _{mp} [A]	18.18	18.25	18.31	18.38	18.44	18.51	18.57
Open Circuit Voltage	V _{oc} [V]	49.90	50.05	50.20	50.35	50.50	50.65	50.80
Short Circuit Current	I _{sc} [A]	19.06	19.13	19.19	19.26	19.32	19.39	19.45

Mechanical Data

Number of Cells	132 Cells (6×22)
Dimensions of Module L*W*H (mm)	2384×1303×33mm (93.86×51.30×1.30 inches)
Weight (kg)	37.9 kg
Front Side Glass	2.0mm (0.08 inches), Anti-Reflection Coating
Back Side Glass	2.0mm (0.08 inches), Heat Strengthened Glass
Frame	Anodized aluminium alloy
Cable	4.0mm ² , Portrait: +400/-200mm length can be customized
Number of diodes	3
Wind/ Snow Load	2400Pa/ 5400Pa*
Bifaciality (%)	90±5

* For more details please check the installation manual of GCLSI

Temperature Ratings

Temperature Coefficient of I _{sc}	+0.04%/°C
Temperature Coefficient of V _{oc}	-0.24%/°C
Temperature Coefficient of P _{MAX}	-0.24%/°C

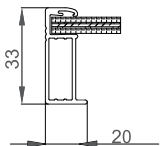
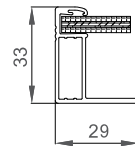
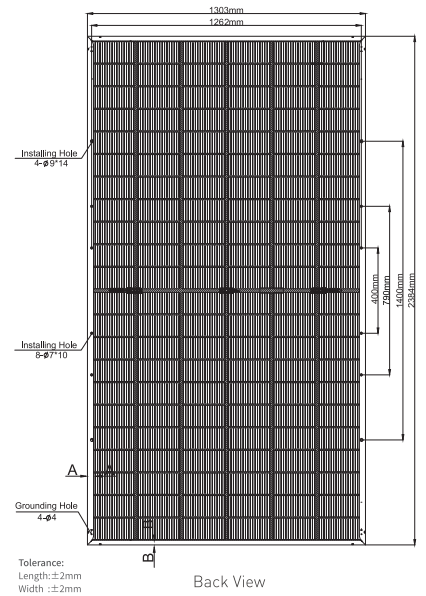
Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	35A

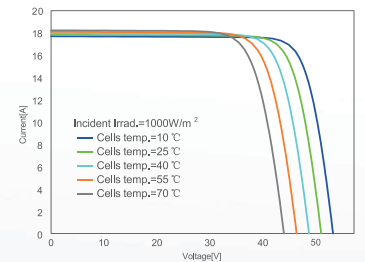
Packaging Configuration

Module per box	33 pieces
Module per 40' HQ	594 pieces

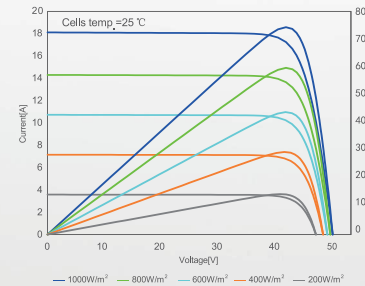
Module Dimension



I-V Curve at Different Temperature (720W)



I-V/P-V Curve at Different Irradiation (720W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT

Contact Us for More Information

website: www.gclsi.com email: gclsisales@gclsi.com

