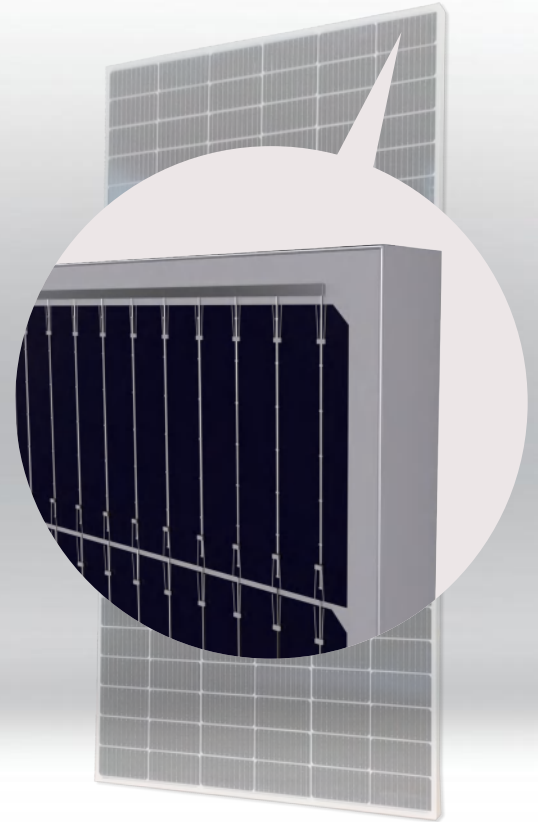


# GCL- NT10/72GDF



**565-590 W**

Lotus series  
bifacial modules

**590 W**

Maximum  
Module Power Output

**22.8%**

Maximum  
Module Efficiency

**0~+5W**

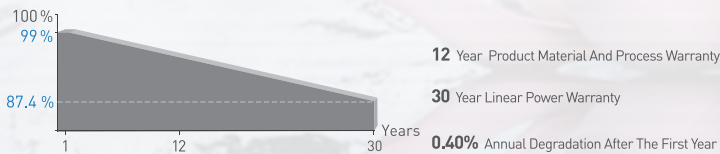
Power  
Output Tolerance

GCL-LOTUS

## GCL Delivers Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Passed various long-term reliability tests
- 2x100% EL inspection before and after lamination to effectively ensure the reliability of modules
- Adopted the strict international standard management system 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)

## Linear Performance Warranty



\* Please refer to the warranty for details



**More Beautiful**  
No briquette blocking  
Reduced corrosion of the  
edge coating layer



**Multi-scenario**  
Suitable for desert, snow,  
water, and other  
environments



**Cleaner**  
Reduced dust buildup in  
corners



**More Convenient**  
Installation time savings of  
30%, compatible with  
horizontal and vertical  
installation



**Safer**  
Reduced risk of hot spots  
High load stability



**High Yield**  
Up to 12% gain in real  
power generation

Additional Insurance Backed by Swiss RE

\* Please contact GCL for details



Electrical Specification (STC\*)

Maximum Power	P <sub>max</sub> (W)	565	570	575	580	585	590
Maximum Power Voltage	V <sub>mp</sub> (V)	43.15	43.35	43.56	43.75	43.95	44.15
Maximum Power Current	I <sub>mp</sub> (A)	13.09	13.15	13.20	13.26	13.31	13.37
Open Circuit Voltage	V <sub>oc</sub> (V)	51.44	51.60	51.75	51.90	52.05	52.20
Short Circuit Current	I <sub>sc</sub> (A)	13.83	13.89	13.95	14.01	14.07	14.13
Module Efficiency	(%)	21.9	22.1	22.3	22.5	22.6	22.8
Power Output Tolerance	(W)	0~+5					

\* Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

Electrical Specification (NMOT\*)

Maximum Power	P <sub>max</sub> (W)	425.2	428.9	432.9	436.6	440.3	444.1
Maximum Power Voltage	V <sub>mp</sub> (V)	40.53	40.73	40.92	41.11	41.30	41.50
Maximum Power Current	I <sub>mp</sub> (A)	10.49	10.53	10.58	10.62	10.66	10.70
Open Circuit Voltage	V <sub>oc</sub> (V)	48.86	49.01	49.15	49.30	49.45	49.60
Short Circuit Current	I <sub>sc</sub> (A)	11.16	11.21	11.26	11.31	11.36	11.41

\* Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

Electrical characteristics with different power bin (reference to 10% Irradiance ratio)

Maximum Power	P <sub>max</sub> (W)	610.1	615.6	621.2	626.5	631.6	637.5
Maximum Power Voltage	V <sub>mp</sub> (V)	43.15	43.35	43.56	43.75	43.95	44.15
Maximum Power Current	I <sub>mp</sub> (A)	14.14	14.20	14.26	14.32	14.37	14.44
Open Circuit Voltage	V <sub>oc</sub> (V)	51.44	51.60	51.75	51.90	52.05	52.20
Short Circuit Current	I <sub>sc</sub> (A)	14.94	15.00	15.07	15.13	15.20	15.26

Irradiance ratio (rear/front) 10%

Mechanical Data

Number of Cells	144 pieces (6×24)
Dimensions of Module L*W*H (mm)	2278×1134×30mm
Weight (kg)	32.1 kg
Front Side Glass	2.0 mm high transparent coated thermally enhanced glass
Back Side Glass	2.0 mm thermally enhanced glass
Frame	Anodised aluminium
J-Box	Protection class IP68
Cable	4.0mm <sup>2</sup> , Portrait: +400/-200mm length can be customized
Number of diodes	3
Wind/ Snow Load	2400Pa/ 5400Pa*
Connector	MC Compatible
Bifaciality	80±5%

\* For more details please check the installation manual of GCLSI

Temperature Ratings

Nominal Module Operating Temperature(NMOT)	45±2°C
Temperature Coefficient of I <sub>sc</sub>	+0.045%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.25%/°C
Temperature Coefficient of P <sub>MAX</sub>	-0.29%/°C

Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	30A

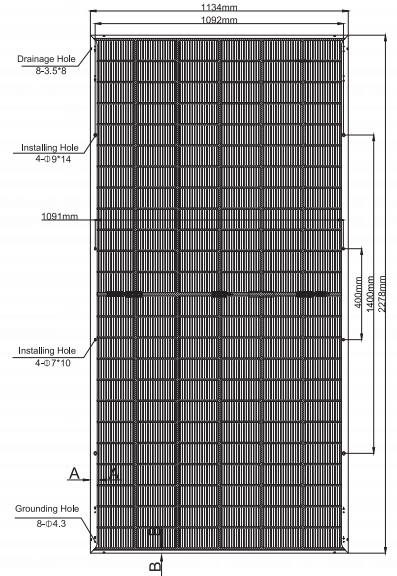
Optional

Connector:	<input type="checkbox"/> Original MC
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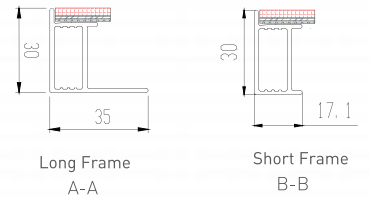
Packaging Configuration

Module per box	34 pieces
Module per 40' container	680 pieces

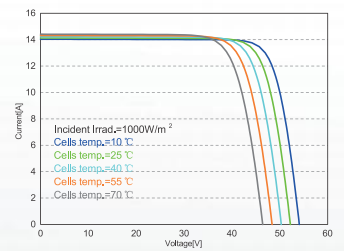
Module Dimension



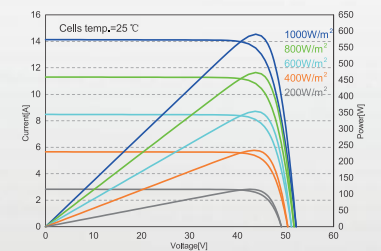
Back View



I-V Curve at Different Temperature (595W)



I-V/P-V Curve at Different Irradiation (595W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT

Contact Us for More Information

website: [www.gclsi.com](http://www.gclsi.com) email: [gclsisales@gclsi.com](mailto:gclsisales@gclsi.com)

