

# GCL- NT12/66GDF

**715-725W**

**Bifacial Dual Glass  
Monocrystalline Module**



**725W**

Maximum Power  
Output

**23.34%**

Maximum Module  
Efficiency

**0~+5W**

Power Binnig  
Range

## GCL Delivers Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Long term reliability tests
- 2×100% EL inspection ensuring defect-free modules



Non-destructive cutting,  
reduce potential micro  
crack risk



Ideal choice for  
large scale ground  
installation



N type technology: The  
N-type module has better  
reliability

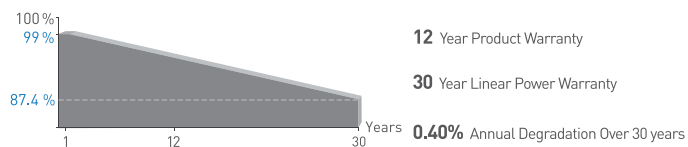


Large size silicon  
wafer module can  
reduce the cost of PV  
support bracket,  
cable, land and so on,  
thus thinning the LCOE

## Comprehensive System and Product Certifications

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO14001:2015 Environmental management systems
- ISO45001:2018 Occupational health and safety management systems
- IEC62941:2019 Terrestrial photovoltaic (PV modules-Quality system for PV module manufacturing)

## Linear Performance Warranty



\*Power degradation values above only apply to the frontside of the module and does not apply to the backside, please refer to GCL standard warranty for details

Additional Insurance Backed by Swiss RE

\* Please refer to GCL for details



### Electrical Specification (STC\*)

| Type                  |                      | GCL-NT12/66GDF 715 | GCL-NT12/66GDF 720 | GCL-NT12/66GDF 725 |
|-----------------------|----------------------|--------------------|--------------------|--------------------|
| Maximum Power         | P <sub>max</sub> [W] | 715                | 720                | 725                |
| Maximum Power Voltage | V <sub>mp</sub> [V]  | 40.65              | 40.84              | 41.03              |
| Maximum Power Current | I <sub>mp</sub> [A]  | 17.59              | 17.63              | 17.67              |
| Open Circuit Voltage  | V <sub>oc</sub> [V]  | 48.36              | 48.58              | 48.80              |
| Short Circuit Current | I <sub>sc</sub> [A]  | 18.51              | 18.55              | 18.60              |
| Module Efficiency     | (%)                  | 23.02              | 23.18              | 23.34              |

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

### Electrical Specification (BNPI&BSI)

| Test Condition        |               | BNPI  | BSI   | BNPI  | BSI   | BNPI  | BSI   |
|-----------------------|---------------|-------|-------|-------|-------|-------|-------|
| Maximum Power         | $P_{max}$ (W) | 785.0 | /     | 790.0 | /     | 795.0 | /     |
| Maximum Power Voltage | $V_{mp}$ (V)  | 40.57 | /     | 40.75 | /     | 40.92 | /     |
| Maximum Power Current | $I_{mp}$ (A)  | 19.35 | /     | 19.39 | /     | 19.43 | /     |
| Open Circuit Voltage  | $V_{oc}$ (V)  | 48.39 | /     | 48.57 | /     | 48.75 | /     |
| Short Circuit Current | $I_{sc}$ (A)  | 20.43 | 22.78 | 20.47 | 22.82 | 20.51 | 22.84 |

BNPI: Irradiance: Front 1000W/m<sup>2</sup>. Rear 135W/m<sup>2</sup>. Cell Temperature 25°C. Air Mass 1.5

BSI: Irradiance: Front 1000W/m<sup>2</sup> Rear 300W/m<sup>2</sup>. Cell Temperature 25°C. Air Mass 1.5

\*The Measurement Tolerance for the above electrical performance parameters:  $P_{max} \pm 3\%$ ,  $V_{oc} \pm 3\%$ ,  $I_{sc} \pm 4\%$

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

|                       |               |       |       |       |
|-----------------------|---------------|-------|-------|-------|
| Maximum Power         | $P_{max}$ (W) | 772.4 | 777.6 | 782.9 |
| Maximum Power Voltage | $V_{mp}$ (V)  | 40.65 | 40.84 | 41.03 |
| Maximum Power Current | $I_{mp}$ (A)  | 19.00 | 19.04 | 19.08 |
| Open Circuit Voltage  | $V_{oc}$ (V)  | 48.36 | 48.58 | 48.80 |
| Short Circuit Current | $I_{sc}$ (A)  | 19.99 | 20.03 | 20.09 |

## 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]                       | 38.3 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                                |
| J-Box                             | IP68 Rated, 3 diodes                                    |
| Cable                             | 4.0mm² , Portrait: +300/-200mm length can be customized |
| Connector                         | Refer to page 3 for optional connectors                 |
| Fire Rating                       | IEC Class C                                             |
| Protection Class                  | Class II                                                |
| Tested Load [-negative/+positive] | 2400Pa/ 5400Pa*                                         |
| Bifaciality                       | φPmax:80±5%, φVoc:95±5%, φISC:80±5%                     |

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

## Temperature Ratings

|                                      |            |
|--------------------------------------|------------|
| Temperature Coefficient of $I_{sc}$  | +0.045%/°C |
| Temperature Coefficient of $V_{oc}$  | -0.25%/°C  |
| Temperature Coefficient of $P_{MAX}$ | -0.29%/°C  |

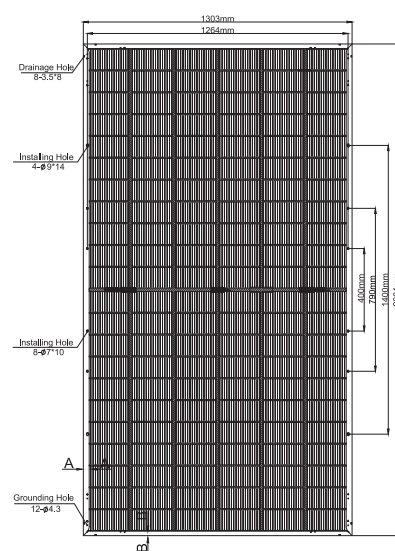
### Maximum Ratings

|                         |           |
|-------------------------|-----------|
| Operational Temperature | -40~+70°C |
| Module (T98) max.       | 70°C      |
| Maximum System Voltage  | 1500V DC  |
| Max Series Fuse Rating  | 35A       |

## Packaging Configuration

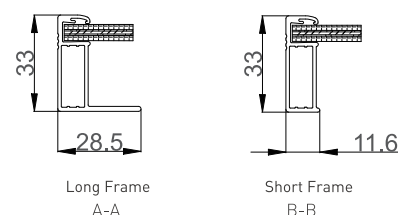
|                   |            |
|-------------------|------------|
| Module per box    | 33 pieces  |
| Module per 40' HQ | 594 pieces |

## Module Dimension



Tolerance:  
Length:  $\pm 2\text{mm}$   
Width :  $\pm 2\text{mm}$

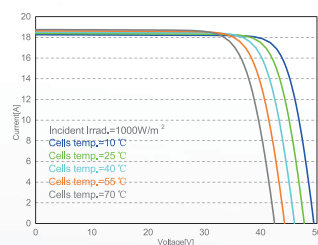
Back View



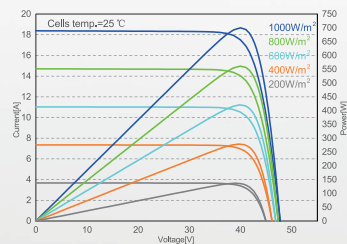
Long Frame  
A-A

Short Frame  
B-B

### I-V Curve at Different Temperature (725W)



#### I-V/P-V Curve at Different Irradiation (725W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT

Contact Us for More Information

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Made in China



## Bringing Green Power To Life

## Optional / Connector

### Manufacturer

Suzhou Bright Photovoltaic Electronic Technology Co., Ltd.

Jiangsu Haitian Microelectronics Corp.

Hefei GCL System Integration New Energy Technology Co., Ltd.

Funing GCL System Integration Technology Co., Ltd.

Suzhou Xtong Photovoltaic Technologies Co., Ltd.

Stäubli Electrical Connectors AG

### Specification

B01

PV-HT03x (x=0 or 1 or 2)

GCL-01 / GCL-02

PV-XT101.1

PV-XT101.2

XT2

PV-KST4-EV0 2/xy\_UR (male)

PV-KBT4-EV0 2/xy\_UR (female)

PV-KST4-EV02A/xy (male)

PV-KBT4-EV02A/xy (female)