

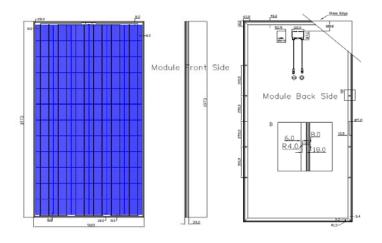


# GCL Photovoltaic Module GCL-72-280/285/290/295/300

GCL branded modules can be used for both off-grid and ongrid applications. With high-yield efficiency and long-term performance they are ideal for utility, commercial or residential roof-top installations. GCL stands behind the modules with superior manufacturing, quality control and design.

#### **Features**

- GCL is a virtually vertically integrated company from the wafers all the way to solar farm. With GCL guaranteed wafers the quality is carried all the way through the product and will provide lasting power over the 25 year warranty.
- GCL has the largest market cap in the PV industry. GCL has been in power generation business 20 years and is going to be here standing behind the warranty for 25 years more.
- GCL modules decrease installation time and costs with our standard Easy-installation compatible frames.



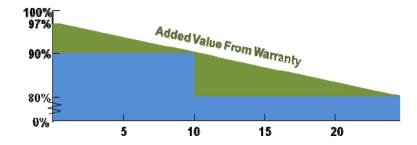
### **Quality Certifications**



\*Complies with UL1703 based on ETL testing

#### **Performance Overview**

- Industry leading positive power tolerance from 0 to 3%.
   Module efficiencies as high as 15.98%
- Certified to withstand snow loads up to 5400Pa
- 10-year product workmanship warranty and 25-year linear power output warranty







Electrical Data I-V Curve

TYPE₽	GCL-72-280 280 <i>₽</i>	GCL-72-285 285₽	GCL-72-290 290₽	GCL-72-295 295₽	GCL-72-300 300₽	Typical output under different irradiation↔ and the correlation between Isc/Voc/ Pmax⊷
Rated Maximum Power at STC (W)4 <sup>3</sup>	280₽	285₽	2904□	295₽	30043	and Temperature map  Gurent (N)  Power (M)
Open Circuit Voltage (Voc/V)ಳ	45₽	44.67₽	45.06₽	45.24₽	45.31₽	10.00
Maximum Power Voltage (Vmp/V)ಳ	35.5₽	35.81₽	35.89₽	36.31₽	36.74₽	4.00
Short Circuit Current (Isc/A)↔	8.35₽	8.55₽	8.64₽	8.66₽	8.68₽	2.00
Maximum Power Current (Imp/A)↔	7.89₽	7.95₽	8.16₽	8.15₽	8.18₽	0.00 10.00 20.00 30.00 40.00 50.00 Voltage M
Module Efficiency [%]	14.44₽	14.69₽	14.95₽	15.21₽	15.47₽	Gurrent, A Power, W 9.0 300 1000W/m2
Power <u>Tolerance(</u> %)↔	0~+3+					7.2 240 800W/m2
αlsc (%/°C)↔	+0.04+2					5.4 180 600W/m2 3.6 120 400W/m2
<u>βVoc</u> (%/°C)↔	-0.32₽					1.8 60 200W/m2
y <u>Pmp</u> (%/°C)√³	-0.44₽					0.0 0.0 10.0 20.0 30.0 40.0 50.0 4J

Standard Test Conditions: Irradiance of 1000W/  $\mathrm{m}^2$  , spectrum AM 1.5 and cell temperature of 25°C

Mechanical Parameters	
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 Cell (mm)
 Poly 156×156 Tainergy

 Weight (kg)
 22.55

 Dimensions (L×W×H)(mm)
 1973x989×39

Cable Length (mm) ≥1000

Cable cross section size (mm2)

No. of cells and connections 72 (6x12)

No. of diodes 3

Packing configuration 27 pcs./Pallet

Module Pieces per Container (40 ft. HQ) 594 pcs

## **Working Conditions**

Maximum System Voltage DC 1000V(TüV) / 600V(UL)

Operating Temp  $-40\,^{\circ}\text{C}^{\sim}+85\,^{\circ}\text{C}$ 

Maximum Series Fuse 15 A

Max.Wind Load/Max.Snow Load 2400Pa / 5400Pa

Connector MC4 or MC4 comparable