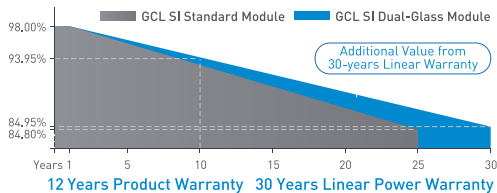


GCL-M10/72GDF-B

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

Linear Performance Warranty



* Please refer to GCL standard warranty for details



Additional safety, fire class A certified



100% waterproof performances



Natural heat dissipation feature



More convenient installation and maintenance



Level 16 wind resistance



Longer service life



Stand up to being trampled



Larger installed capacity

Additional Insurance Backed by Swiss RE

* Please refer to GCL for details



GCL-M10/72GDF-B

GCL ROOF

Electrical Specification (STC*)

| | | | | | | |
|------------------------|----------------------|-------|-------|-------|-------|-------|
| Maximum Power | P _{max} (W) | 535 | 540 | 545 | 550 | 555 |
| Maximum Power Voltage | V _{mp} (V) | 41.22 | 41.45 | 41.70 | 41.93 | 42.18 |
| Maximum Power Current | I _{mp} (A) | 12.98 | 13.03 | 13.07 | 13.12 | 13.16 |
| Open Circuit Voltage | V _{oc} (V) | 48.96 | 49.24 | 49.52 | 49.80 | 50.08 |
| Short Circuit Current | I _{sc} (A) | 13.73 | 13.78 | 13.83 | 13.88 | 13.93 |
| Module Efficiency | (%) | 20.4 | 20.6 | 20.8 | 21.0 | 21.1 |
| Power Output Tolerance | (W) | 0~+5 | | | | |

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

Electrical Specification (NMOT*)

| | | | | | | |
|-----------------------|----------------------|-------|-------|-------|-------|-------|
| Maximum Power | P _{max} (W) | 404.8 | 408.6 | 412.4 | 416.2 | 420.0 |
| Maximum Power Voltage | V _{mp} (V) | 38.23 | 38.45 | 38.67 | 38.90 | 39.12 |
| Maximum Power Current | I _{mp} (A) | 10.58 | 10.62 | 10.66 | 10.70 | 10.74 |
| Open Circuit Voltage | V _{oc} (V) | 46.21 | 46.48 | 46.74 | 47.01 | 47.28 |
| Short Circuit Current | I _{sc} (A) | 11.00 | 11.04 | 11.08 | 11.12 | 11.16 |

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Data

| | |
|--|--|
| Number of Cells | 144 Cells (6×24) |
| Dimensions of Module L*W*H (mm) | 2290×1146×30mm |
| Weight (kg) | 33.2 kg |
| Front Side Glass | 2.0mm (0.08 inches), Anti-Reflection Coating |
| Back Side Glass | 2.0mm (0.08 inches), Heat Strengthened Glass |
| Frame | Silver, anodized aluminium alloy |
| J-Box | IP68 Rated |
| Cable | 4.0mm ² (0.006 inches ²), Portrait: 280/280mm (11.02inches) |
| Number of diodes | 3 |
| Resistance to static wind exposure/ Snow Load | 5600Pa/ 7000Pa* |
| Connector | MC Compatible |

* For more details please check the installation manual of GCLSI

Temperature Ratings

| | |
|---|-----------|
| Nominal Module Operating Temperature(NMOT) | 45±2°C |
| Temperature Coefficient of I _{sc} | +0.05%/°C |
| Temperature Coefficient of V _{oc} | -0.28%/°C |
| Temperature Coefficient of P _{MAX} | -0.35%/°C |

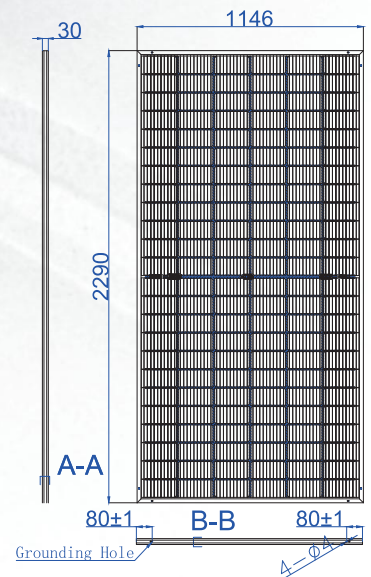
Maximum Ratings

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

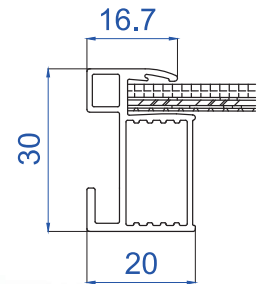
Packaging Configuration

| | |
|--------------------------|------------|
| Module per box | 36 pieces |
| Module per 40' container | 720 pieces |

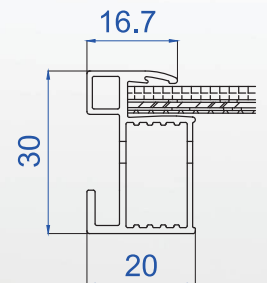
Module Dimension



Back View



Long Frame
A-A



Short Frame
B-B

Contact Us for More Information

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



Bringing Green Power To Life

GCL/XXJC/2-MKT-176-G0