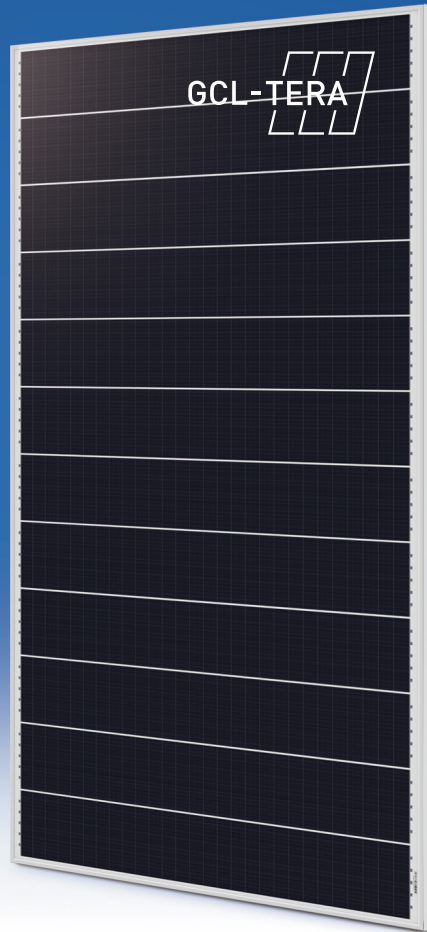




GCL-M2/72H

High Density Monocrystalline Module

405-440W



440W

Maximum Power Output

20.3%

Maximum Module Efficiency

0~+5W

Power Output Guarantee



Unique cell cutting and inter-connecting process, increases light absorption area and decreases module internal power loss



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



Sand blowing test, salt mist test and ammonia test passed to endure harsh environments



Optimized system performance due to module level current sorting



Special cell process ensures great performance under low irradiance conditions

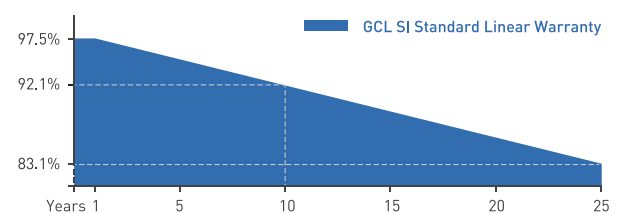


Highly transparent self-cleaning glass brings additional yield and easy maintenance

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



12 Years Product Warranty 25 Years Linear Power Warranty

* Please refer to GCL standard warranty for details

Additional Insurance Backed by Swiss RE



* Please refer to GCL for details

GCL-M2/72H

High Density Monocrystalline Module 405-440W

Electrical Specification (STC*)

| | | | | | | | | | |
|------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power | P _{max} (W) | 405 | 410 | 415 | 420 | 425 | 430 | 435 | 440 |
| Maximum Power Voltage | V _{mp} (V) | 37.40 | 37.50 | 37.60 | 37.70 | 38.10 | 38.30 | 38.50 | 38.70 |
| Maximum Power Current | I _{mp} (A) | 10.83 | 10.93 | 11.04 | 11.14 | 11.15 | 11.23 | 11.30 | 11.37 |
| Open Circuit Voltage | V _{oc} (V) | 45.30 | 45.30 | 45.40 | 45.50 | 45.70 | 45.80 | 45.90 | 46.00 |
| Short Circuit Current | I _{sc} (A) | 11.39 | 11.43 | 11.47 | 11.53 | 11.58 | 11.62 | 11.67 | 11.71 |
| Module Efficiency | (%) | 18.6 | 18.9 | 19.1 | 19.3 | 19.6 | 19.8 | 20.0 | 20.3 |
| Power Output Tolerance | (W) | | | | | | | | 0~+5 |

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

Electrical Specification (NMOT*)

| | | | | | | | | | |
|-----------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power | P _{max} (W) | 303 | 307 | 311 | 315 | 318 | 322 | 325 | 329 |
| Maximum Power Voltage | V _{mp} (V) | 35.10 | 35.30 | 35.60 | 35.80 | 36.00 | 36.20 | 36.40 | 36.60 |
| Maximum Power Current | I _{mp} (A) | 8.64 | 8.69 | 8.73 | 8.79 | 8.84 | 8.89 | 8.94 | 8.99 |
| Open Circuit Voltage | V _{oc} (V) | 42.50 | 42.50 | 42.50 | 42.60 | 42.70 | 42.80 | 42.90 | 43.00 |
| Short Circuit Current | I _{sc} (A) | 9.17 | 9.21 | 9.24 | 9.29 | 9.34 | 9.37 | 9.41 | 9.44 |

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

Mechanical Data

| | |
|---------------------------------|--|
| Number of Cells | 408 Cells [34×12] |
| Dimensions of Module L*W*H (mm) | 1971×1102×40mm [77.60×43.39×1.57 inches] |
| Weight (kg) | 26.0 kg |
| Glass | High transparency solar glass 3.2mm [0.13 inches] |
| Backsheet | White |
| Frame | Silver, anodized aluminium alloy |
| J-Box | IP67 Rated |
| Cable | 4.0mm ² [0.006 inches ²], 1200mm [47.20 inches] |
| Number of diodes | 2 |
| Wind/ Snow Load | 2400Pa/ 5400Pa* |
| Connector | MC Compatible |

* For more details please check the installation manual of GCLSI

Temperature Ratings

| | |
|---|-----------|
| Nominal Module Operating Temperature (NMOT) | 42.3±2°C |
| Temperature Coefficient of I _{sc} | +0.05%/°C |
| Temperature Coefficient of V _{oc} | -0.30%/°C |
| Temperature Coefficient of P _{MAX} | -0.38%/°C |

Packaging Configuration

| | |
|--------------------------|------------|
| Module per box | 26 pieces |
| Module per 40' container | 572 pieces |

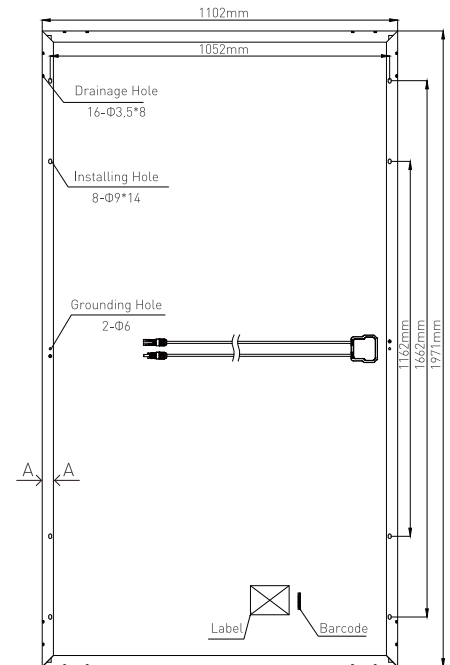
Maximum Ratings

| | |
|-------------------------|-----------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1500V DC |
| Max Series Fuse Rating | 20A |

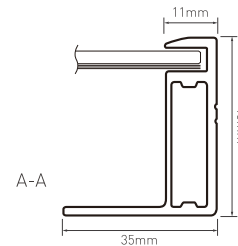
Optional

Connector: Original MC4

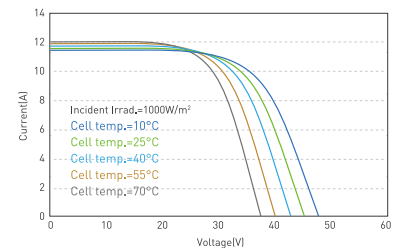
Module Dimension



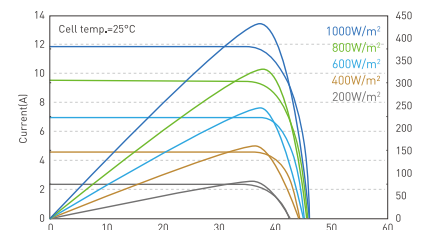
Back View



I-V Curve at Different Temperature (440W)



I-V/P-V Curve at Different Irradiation (440W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT



Contact Us for More Information

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