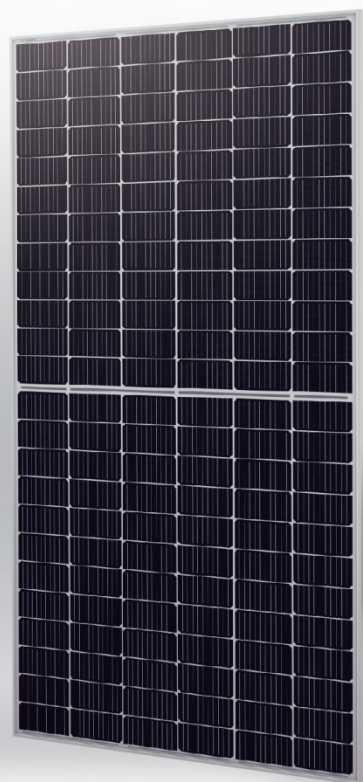


# GCL- M10/72H



**525-560 W**

**Monocrystalline Module**

**560 W**

Maximum Power Output

**21.7%**

Maximum Module Efficiency

**0~+5W**

Power Output Guarantee

**GCL-SATURN**

## 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



Special cutting and soldering technology leads to low hotspot risk



Ideal choice for large scale ground installation



Optimized system performance due to module level current sorting



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

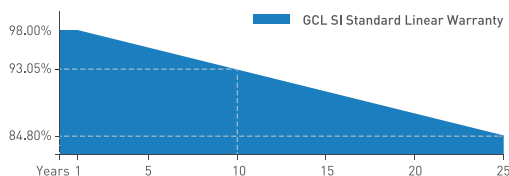


Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



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

## 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



## Electrical Specification (STC\*)

|                        |                      |       |       |       |       |       |       |       |       |
|------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power          | P <sub>max</sub> (W) | 525   | 530   | 535   | 540   | 545   | 550   | 555   | 560   |
| Maximum Power Voltage  | V <sub>mp</sub> (V)  | 41.21 | 41.48 | 41.77 | 42.06 | 42.35 | 42.64 | 42.93 | 43.22 |
| Maximum Power Current  | I <sub>mp</sub> (A)  | 12.74 | 12.78 | 12.81 | 12.84 | 12.87 | 12.90 | 12.93 | 12.96 |
| Open Circuit Voltage   | V <sub>oc</sub> (V)  | 49.05 | 49.28 | 49.51 | 49.75 | 49.98 | 50.22 | 50.45 | 50.68 |
| Short Circuit Current  | I <sub>sc</sub> (A)  | 13.53 | 13.57 | 13.60 | 13.63 | 13.66 | 13.70 | 13.73 | 13.76 |
| Module Efficiency      | (%)                  | 20.3  | 20.5  | 20.7  | 20.9  | 21.1  | 21.3  | 21.5  | 21.7  |
| 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) | 397.2 | 401.1 | 404.8 | 408.6 | 412.4 | 416.2 | 420.0 | 423.8 |
| Maximum Power Voltage | V <sub>mp</sub> (V)  | 38.22 | 38.47 | 38.74 | 39.01 | 39.28 | 39.55 | 39.82 | 40.09 |
| Maximum Power Current | I <sub>mp</sub> (A)  | 10.39 | 10.43 | 10.45 | 10.47 | 10.50 | 10.52 | 10.55 | 10.57 |
| Open Circuit Voltage  | V <sub>oc</sub> (V)  | 46.30 | 46.52 | 46.74 | 46.96 | 47.18 | 47.40 | 47.62 | 47.85 |
| Short Circuit Current | I <sub>sc</sub> (A)  | 10.84 | 10.86 | 10.89 | 10.92 | 10.94 | 10.97 | 10.99 | 11.02 |

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

## Mechanical Data

|                                 |                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------|
| Number of Cells                 | 144 Cells (6×24)                                                                   |
| Dimensions of Module L*W*H (mm) | 2278×1134×30 mm [89.69×44.65×1.18 inches]                                          |
| Weight (kg)                     | 26.8 kg                                                                            |
| Glass                           | High transparency solar glass 3.2mm (0.13 inches)                                  |
| Backsheet                       | White                                                                              |
| Frame                           | Silver, anodized aluminium alloy                                                   |
| J-Box                           | IP68 Rated                                                                         |
| Cable                           | 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ), Portrait: 280/280mm (11.02inches) |
| Number of diodes                | 3                                                                                  |
| 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)  | 43±2°C    |
| Temperature Coefficient of I <sub>sc</sub>  | +0.05%/°C |
| Temperature Coefficient of V <sub>oc</sub>  | -0.28%/°C |
| Temperature Coefficient of P <sub>MAX</sub> | -0.36%/°C |

## Packaging Configuration

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

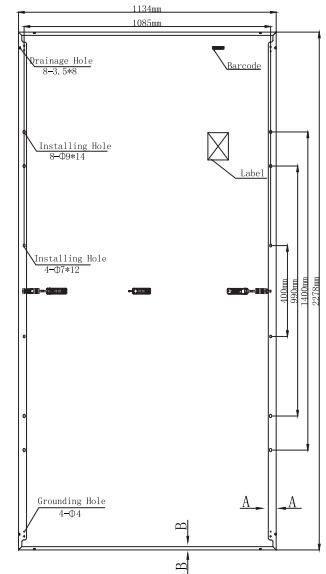
## Maximum Ratings

|                         |           |
|-------------------------|-----------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage  | 1500V DC  |
| Max Series Fuse Rating  | 25A       |

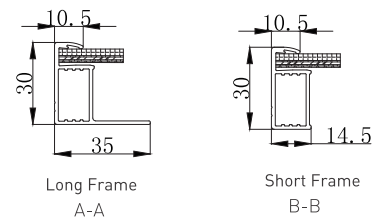
## Optional

Connector: ☐ Original MC4

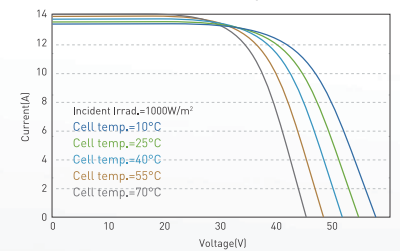
## Module Dimension



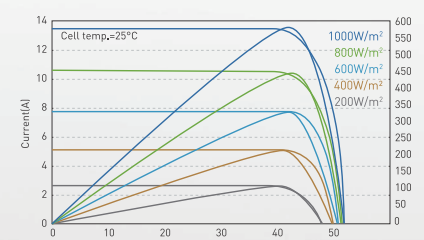
## Back View



## I-V Curve at Different Temperature (560W)



## I-V/P-V Curve at Different Irradiation (560W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT

## Contact Us for More Information

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