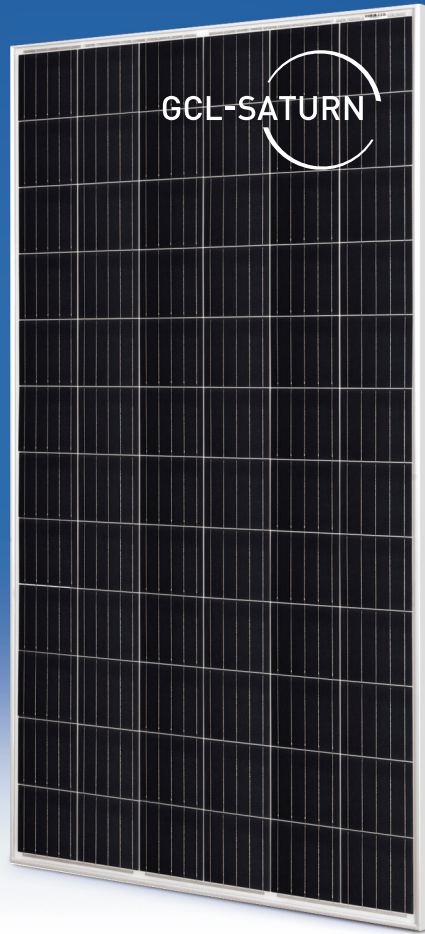




# GCL-M6/72H

## Monocrystalline Module

### 380-415W



**415W**

Maximum Power Output

**21.0%**

Maximum Module Efficiency

**0~+5W**

Power Output Guarantee



Ideal choice for large scale ground installation



High conversion efficiency due to top quality wafers and advanced cell technology



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



Optimized system performance due to module level current sorting



Special cell process ensures great performance under low irradiance conditions

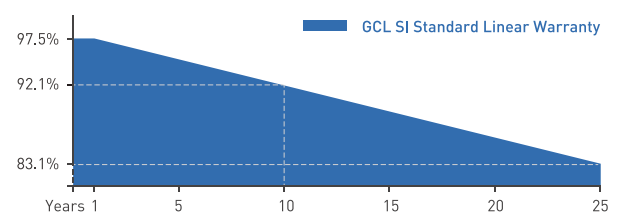


Highly transparent self-cleaning glass brings additional yield and easy maintenance

### 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-M6/72H

# Monocrystalline Module 380-415W

## Electrical Specification (STC\*)

		380	385	390	395	400	405	410	415
Maximum Power	P <sub>max</sub> (W)	380	385	390	395	400	405	410	415
Maximum Power Voltage	V <sub>mp</sub> (V)	39.80	39.98	40.17	40.35	40.53	40.71	40.88	41.05
Maximum Power Current	I <sub>mp</sub> (A)	9.55	9.63	9.71	9.79	9.87	9.95	10.03	10.11
Open Circuit Voltage	V <sub>oc</sub> (V)	48.20	48.40	48.60	48.80	49.00	49.20	49.40	49.60
Short Circuit Current	I <sub>sc</sub> (A)	10.13	10.21	10.29	10.37	10.45	10.53	10.61	10.69
Module Efficiency	(%)	19.2	19.4	19.7	19.9	20.2	20.5	20.7	21.0
Power Output Tolerance	(W)								0~+5

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

## Electrical Specification (NOCT\*)

		282.22	285.98	288.97	292.76	296.58	300.42	304.29	308.18
Maximum Power	P <sub>max</sub> (W)	282.22	285.98	288.97	292.76	296.58	300.42	304.29	308.18
Maximum Power Voltage	V <sub>mp</sub> (V)	36.70	36.90	37.00	37.20	37.40	37.60	37.80	38.00
Maximum Power Current	I <sub>mp</sub> (A)	7.69	7.75	7.81	7.87	7.93	7.99	8.05	8.11
Open Circuit Voltage	V <sub>oc</sub> (V)	44.70	44.90	45.10	45.30	45.50	45.70	45.90	46.10
Short Circuit Current	I <sub>sc</sub> (A)	8.19	8.25	8.32	8.39	8.46	8.53	8.60	8.67

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

## Mechanical Data

Number of Cells	72 Cells (6×12)
Dimensions of Module L*W*H (mm)	1980×1000×35mm [77.95 × 39.37 × 1.38 inches]
Weight (kg)	22.2 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> ], 1200mm [47.24 inches]
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 Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of I <sub>sc</sub>	+0.06%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.30%/°C
Temperature Coefficient of P <sub>MAX</sub>	-0.39%/°C

## Packaging Configuration

Module per box	30 pieces
Module per 40' container	660 pieces

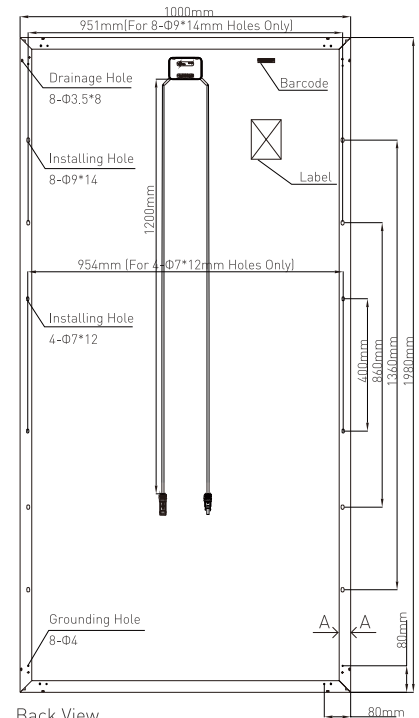
## Maximum Ratings

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

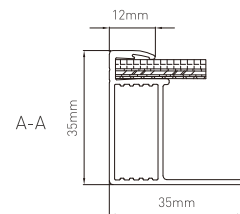
## Optional

Connector:  Original MC4

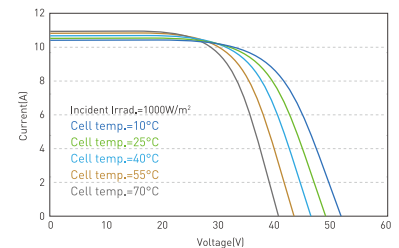
## Module Dimension



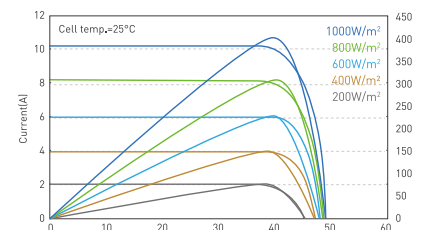
Back View



## I-V Curve at Different Temperature (415W)



## I-V/P-V Curve at Different Irradiation (415W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT



Contact Us for More Information

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