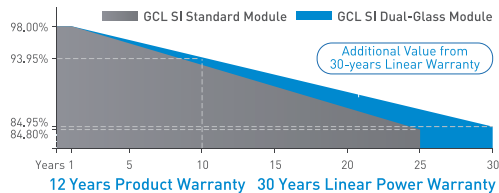


# GCL-M10/72GDF-B

## 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 <sub>max</sub> (W)	535	540	545	550	555
Maximum Power Voltage	V <sub>mp</sub> (V)	41.22	41.45	41.70	41.93	42.18
Maximum Power Current	I <sub>mp</sub> (A)	12.98	13.03	13.07	13.12	13.16
Open Circuit Voltage	V <sub>oc</sub> (V)	48.96	49.24	49.52	49.80	50.08
Short Circuit Current	I <sub>sc</sub> (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/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

### Electrical Specification (NMOT\*)

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

\* 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)	2290×1146×30mm
Weight (kg)	33.2 kg
Front Side Glass	High transparency solar glass 2.0mm (0.08 inches)
Back Side Glass	High transparency solar glass 2.0mm (0.08 inches)
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
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)	42±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>	-0.35%/°C

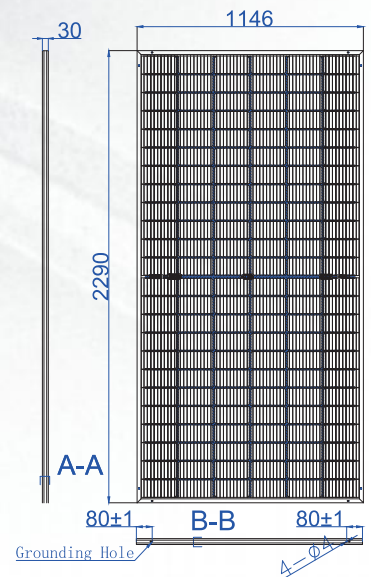
### Maximum Ratings

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

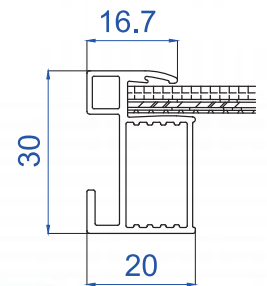
### Packaging Configuration

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

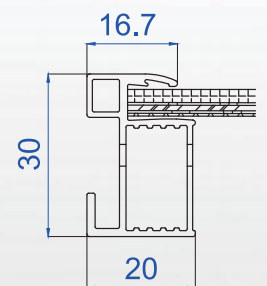
### Module Dimension



### Back View



Long Frame  
A-A



Short Frame  
B-B

Contact Us for More Information

website: [www.gclsi.com](http://www.gclsi.com) email: [gclsisales@gclsi.com](mailto:gclsisales@gclsi.com)



Bringing Green Power To Life