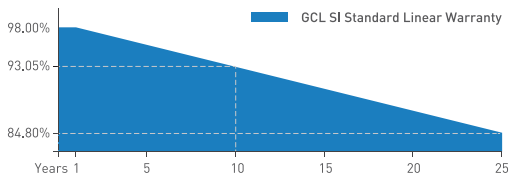


# GCL-M10/54H-B

## 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



12 Years Product Warranty 25 Years Linear Power Warranty

\* Please refer to GCL standard warranty for details



Stronger installation structure



100% waterproof performances



Natural heat dissipation feature



More convenient installation and maintenance



Level 16 wind resistance



Longer service life



PV modules and color steel tiles are highly integrated



Larger installed capacity

Additional Insurance Backed by Swiss RE

\* Please refer to GCL for details



# GCL-M10/54H-B

## GCL ROOF

### Electrical Specification (STC\*)

Maximum Power	P <sub>max</sub> (W)	400	405	410	415	420
Maximum Power Voltage	V <sub>mp</sub> (V)	31.01	31.16	31.31	31.46	31.61
Maximum Power Current	I <sub>mp</sub> (A)	12.90	13.00	13.09	13.19	13.29
Open Circuit Voltage	V <sub>oc</sub> (V)	36.78	36.93	37.08	37.23	37.38
Short Circuit Current	I <sub>sc</sub> (A)	13.52	13.61	13.70	13.80	13.89
Module Efficiency	(%)	20.1	20.4	20.6	20.9	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)	302.8	306.6	310.3	314.1	317.9
Maximum Power Voltage	V <sub>mp</sub> (V)	28.76	28.90	29.04	29.18	29.32
Maximum Power Current	I <sub>mp</sub> (A)	10.52	10.60	10.68	10.76	10.84
Open Circuit Voltage	V <sub>oc</sub> (V)	34.72	34.86	35.00	35.15	35.29
Short Circuit Current	I <sub>sc</sub> (A)	10.82	10.90	10.97	11.05	11.12

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

### Mechanical Data

Number of Cells	108 Cells (6×18)
Dimensions of Module L*W*H (mm)	1734×1146×30mm
Weight (kg)	21.0 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
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)	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

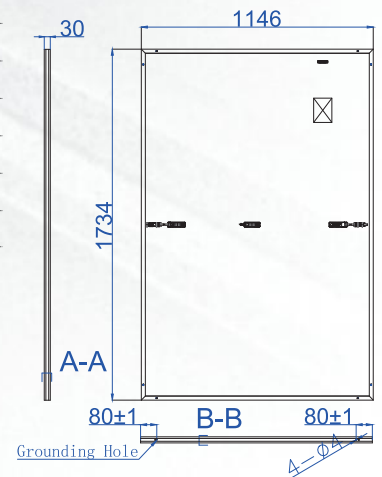
### Maximum Ratings

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

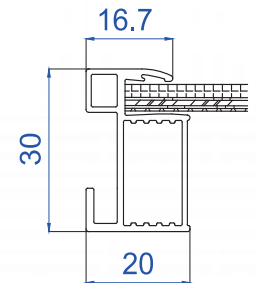
### Packaging Configuration

Module per box	36 pieces
Module per 40' container	936 pieces

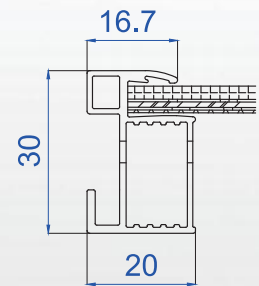
### Module Dimension



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