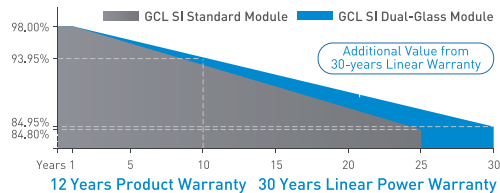


GCL-M10/54GDF-B

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



Level 16 wind resistance



100% waterproof performances



Longer service life



Natural heat dissipation feature



Stand up to being trampled



More convenient installation and maintenance



Larger installed capacity

Additional Insurance Backed by Swiss RE

* Please refer to GCL for details



GCL-M10/54GDF-B

GCL ROOF

Electrical Specification (STC*)

Maximum Power	P _{max} (W)	400	405	410	415	420
Maximum Power Voltage	V _{mp} (V)	31.01	31.16	31.31	31.46	31.61
Maximum Power Current	I _{mp} (A)	12.90	13.00	13.09	13.19	13.29
Open Circuit Voltage	V _{oc} (V)	36.78	36.93	37.08	37.23	37.38
Short Circuit Current	I _{sc} (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/m², Cell Temperature 25°C, Air Mass 1.5

Electrical Specification (NMOT*)

Maximum Power	P _{max} (W)	302.8	306.6	310.3	314.1	317.9
Maximum Power Voltage	V _{mp} (V)	28.76	28.90	29.04	29.18	29.32
Maximum Power Current	I _{mp} (A)	10.52	10.60	10.68	10.76	10.84
Open Circuit Voltage	V _{oc} (V)	34.72	34.86	35.00	35.15	35.29
Short Circuit Current	I _{sc} (A)	10.82	10.90	10.97	11.05	11.12

* Irradiance 800W/m², 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*30 mm
Weight (kg)	25.3 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 ² [0.006 inches ²], 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 _{sc}	+0.05%/°C
Temperature Coefficient of V _{oc}	-0.28%/°C
Temperature Coefficient of P _{MAX}	-0.35%/°C

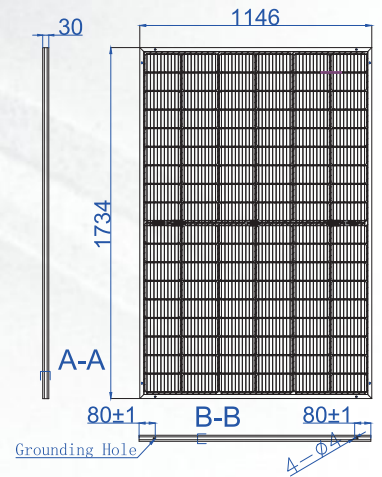
Maximum Ratings

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

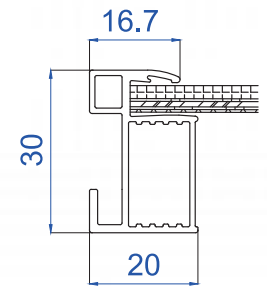
Packaging Configuration

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

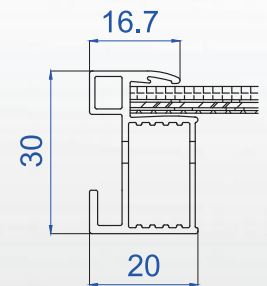
Module Dimension



Back View



Long Frame
A-A



Short Frame
B-B

Contact Us for More Information

website: www.gclsi.com email: gclsisales@gclsi.com



Bringing Green Power To Life