

GCL- M10/72H



545-565 W

Monocrystalline Module

465 W

Maximum Power Output

21.87%

Maximum Module Efficiency

0~+5W

Power Output Guarantee



Special cutting and soldering technology leads to low hotspot risk



Optimized system performance due to module level current sorting



Ideal choice for large scale ground installation



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

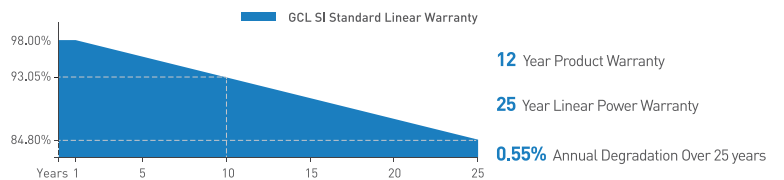
GCL Delivers Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Long term reliability tests
- 2x100% EL inspection ensuring defect-free modules

Comprehensive System and Product Certifications

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO14001:2015 Environmental management systems
- ISO45001:2018 Occupational health and safety management systems
- IEC62941:2019 Terrestrial photovoltaic (PV) modules—Quality system for PV module manufacturing

Linear Performance 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 _{max} (W)	545	550	555	560	565
Maximum Power Voltage	V _{mp} (V)	42.35	42.64	42.93	43.22	43.50
Maximum Power Current	I _{mp} (A)	12.87	12.90	12.93	12.96	12.99
Open Circuit Voltage	V _{oc} (V)	49.98	50.22	50.45	50.68	50.92
Short Circuit Current	I _{sc} (A)	13.66	13.70	13.73	13.76	13.79
Module Efficiency	(%)	21.10	21.29	21.48	21.68	21.87

* Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5
P_{max} Tolerance: ±3%

Electrical Specification (NOCT*)

Maximum Power	P _{max} (W)	405.0	408.7	412.4	416.1	419.8
Maximum Power Voltage	V _{mp} (V)	38.76	39.00	39.24	39.48	39.72
Maximum Power Current	I _{mp} (A)	10.45	10.48	10.51	10.54	10.57
Open Circuit Voltage	V _{oc} (V)	46.54	46.75	46.96	47.17	47.38
Short Circuit Current	I _{sc} (A)	11.02	11.05	11.08	11.11	11.14

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Data

Number of Cells	144 Cells (6×24)
Dimensions of Module L*W*H (mm)	2278×1134×35 mm [89.69×44.65×1.38 inches]
Weight (kg)	27.8 kg
Glass	High transparency tempered glass 3.2 mm [0.13 inches]
Backsheet	White
Frame	Anodized aluminium alloy
J-Box	IP68 Rated
Fire Rating	IEC Class C
Protection Class	Class II
Cable	4.0mm ² , Portrait: +300/-200mm length can be customized
Number of diodes	3
Wind/ Snow Load	2400Pa/ 5400Pa*

* For more details please check the installation manual of GCLSI

Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	45±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	25A

Packaging Configuration

Module per box	31 pieces
Module per 40' container	620 pieces

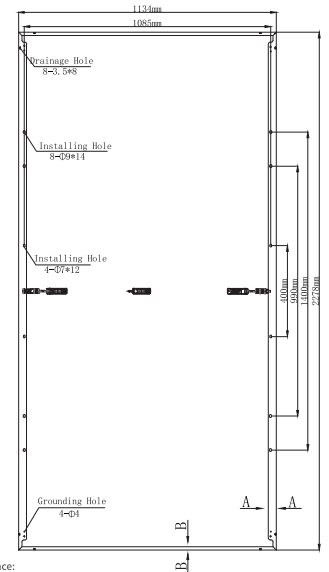
Tolerance

Sorting Tolerance	0~+5W
V _{oc} Tolerance	±3%
I _{sc} Tolerance	±4%

Connector

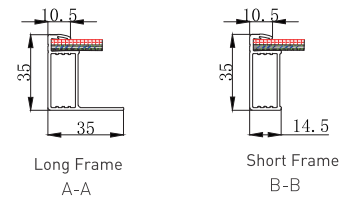
QC	QC4.10-cd	Renhe	05-8
Bright	B01 / B05x	UKT	PV-C002
Haitian	PV-HT03	Zhonghuan	PV-ZH202B
Tonglin	TL-CABLE01S	Zerun	Z4S-abcde
ChuangYuan	PV-CY20L / PV-CY03L		
Xtong	PV-XT101.1 / PV-XT101.2 / XT2		
Staubli	PV-KST4-EV02/xy-UR / PV-KST4-EV02A/xy PV-KBT4-EV02/xy-UR / PV-KBT4-EV02A/xy		

Module Dimension

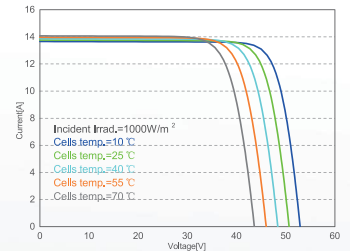


Tolerance:
Length: ±2mm
Width: ±2mm

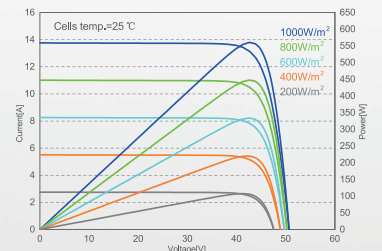
Back View



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

GCL System Integration Technology Co., Ltd.

address: Jianghai Economic Zone, Nanqiao Town, Fengxian District, 201406 Shanghai P. R. China

website: www.gclsi.com

email: gclsisales@gclsi.com

