



GCL-M6/60G

HIGH EFFICIENCY DUAL GLASS
MONOCRYSTALLINE MODULE

GCL-M6/60G 270-285 Watt

285^W

MAXIMUM POWER OUTPUT

17.3%

MAXIMUM MODULE EFFICIENCY

0~+5^W

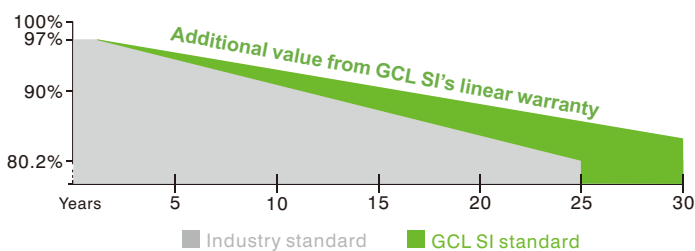
POWER OUTPUT GUARANTEE

Trust GCL to Deliver 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:
ISO9001:2008, ISO 14001: 2004 and OHSAS: 18001 2007
- 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
- 2*100% EL inspection ensuring defect-free modules

LINEAR PERFORMANCE WARRANTY

10 Years Product Warranty 30 Years Linear Power Warranty



Ideal choice for large scale ground installation



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



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



Additional safety, Fire class A certified



Withstand up to 1500V system voltage effectively reduce BOS cost



Passed sand blowing test, salt mist test and ammonia test; flexible for harsh environments

Additional insurance backed by Swiss RE



According to UL 1703



Bringing Green Power to Life

GCL-M6/60G

HIGH EFFICIENCY DUAL GLASS MONOCRYSTALLINE MODULE

ELECTRICAL SPECIFICATION (STC)

TYPE (STC)		GCL-M6/60G 270	GCL-M6/60G 275	GCL-M6/60G 280	GCL-M6/60G 285
Maximum Power	P _{max} (W)	270	275	280	285
Maximum Power Voltage	V _m (V)	31.2	31.4	31.6	31.8
Maximum Power Current	I _m (A)	8.65	8.76	8.86	8.96
Open Circuit Voltage	V _{oc} (V)	38.3	38.5	38.7	38.9
Short Circuit Current	I _{sc} (A)	9.29	9.38	9.46	9.54
Module Efficiency	(%)	16.4	16.7	17.0	17.3
Power Output Tolerance	P _m (W)	0~+5			

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C).

ELECTRICAL DATA (NOCT)

		196.88	200.57	204.57	208.62
Maximum Power	P _{max} (W)				
Maximum Power Voltage	V _m (V)	28.7	28.9	29.1	29.3
Maximum Power Current	I _m (A)	6.86	6.94	7.03	7.12
Open Circuit Voltage	V _{oc} (V)	34.9	35.1	35.3	35.5
Short Circuit Current	I _{sc} (A)	7.43	7.52	7.61	7.68

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Mono 156.75×156.75mm (6 inches)
Cell Orientation	60 Cells (6×10)
Module Dimensions	1658×992×6mm
Weight	23kg
Front Side Glass	High transparency solar glass 2.5mm (0.13 inches)
Back Side Glass	Float solar glass 2.5mm (0.13 inches)
J-Box	IP67 Rated
Cables	4.0mm ² (0.006 inches ²), length of '+': 225mm, length of '-': 75mm
Connector	Original MC4 or Compatible
Wind Load/ 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 P _{MAX}	-0.41%/°C
Temperature Coefficient of V _{OC}	-0.31%/°C
Temperature Coefficient of I _{SC}	+0.055%/°C

MAXIMUM RATINGS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC(IEC)
Max Series Fuse Rating	15A

WARRANTY

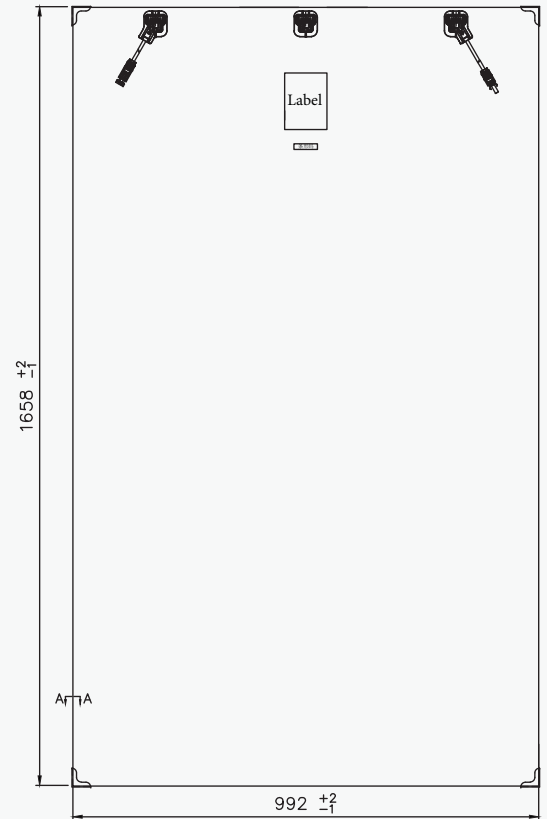
10 years Product Workmanship Warranty
30 years Linear Power Warranty

PACKAGING CONFIGURATION

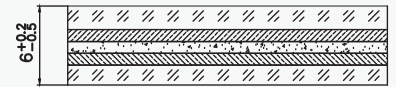
Modules per box: 33 pieces
Modules per 40'HD container: 858 pieces

(Please refer to GCL standard warranty for details)

MODULE DIMENSION

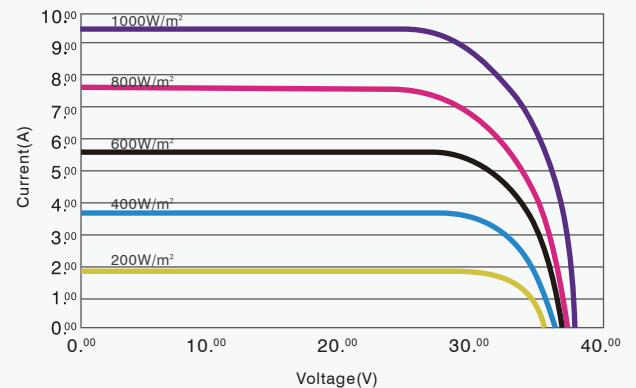


Back View



A-A

I-V CURVES OF MODULE(280W)



Excellent performance under weak light conditions: at an irradiance intensity of 200W/m² W/m(AM 1.5, 25 °C), 96.5% or higher of the STC efficiency (1000 W/m²) is achieved



Bringing Green Power to Life
<http://en.gclsi.com>

GCL-EN-M6/60G-2017-V1.0
CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT
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