GCL-M3/72DH

Bifacial Monocrystalline Module

375-410W

410W
Maximum Power Output

20.1%
Maximum Module Efficiency

0~+5W
Power Output Guarantee

Optimized system performance due to module level current sorting

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

Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

More evenly distributed soldering points and better reliability and lower hot spot risk

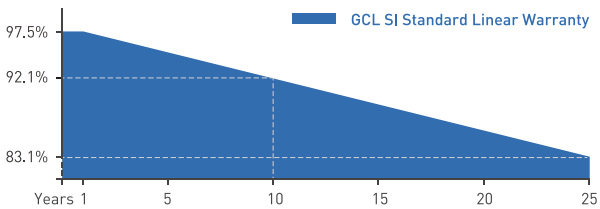
Special cell process ensures great performance under low irradiance conditions

Transparent backsheet, double-sided sun capturing, power generation increase in returns

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
- 2×100% 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

Additional Insurance Backed by Swiss RE

* Please refer to GCL for details

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Electrical Specification (STC*)

Test Condition		Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear
Maximum Power	Pmax(W)	375	265	380	269	385	272	390	276	395	279	400	283	405	286	410	290
Maximum Power Voltage	Vmp(V)	39.98	40.38	40.17	40.57	40.36	40.76	40.55	40.95	40.73	41.13	40.90	41.30	41.08	41.48	41.25	41.65
Maximum Power Current	Imp(A)	9.38	6.57	9.46	6.62	9.54	6.68	9.62	6.73	9.70	6.79	9.78	6.85	9.86	6.90	9.94	6.96
Open Circuit Voltage	Voc(V)	48.28	47.58	48.47	47.77	48.66	47.96	48.85	48.15	49.03	48.33	49.20	48.50	49.37	48.67	49.54	48.84
Short Circuit Current	Isc(A)	9.88	6.94	9.96	6.99	10.04	7.05	10.12	7.10	10.20	7.16	10.28	7.22	10.36	7.27	10.44	7.33
Module Efficiency	(%)	18.4	13.0	18.7	13.2	18.9	13.4	19.2	13.5	19.4	13.7	19.6	13.9	19.9	14.1	20.1	14.2
Power Output Tolerance	(W)	0~+5															

* Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

Electrical Specification (NOCT*)

Test Condition		Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear
Maximum Power	Pmax (W)	279.74	196.94	283.49	199.50	287.26	202.07	291.06	204.66	294.88	207.26	298.72	209.88	302.59	212.50	306.48	215.12
Maximum Power Voltage	Vmp (V)	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70
Maximum Power Current	Imp (A)	7.52	5.28	7.58	5.32	7.64	5.36	7.70	5.40	7.76	5.44	7.82	5.48	7.88	5.52	7.94	5.56
Open Circuit Voltage	Voc(V)	45.00	44.40	45.20	44.60	45.40	44.80	45.60	45.00	45.80	45.20	46.00	45.40	46.20	45.60	46.40	45.80
Short Circuit Current	Isc (A)	7.98	5.60	8.04	5.64	8.10	5.68	8.16	5.72	8.22	5.76	8.28	5.80	8.34	5.84	8.40	5.88

* 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)	2036×1000×35mm (80.16×39.37×1.38 inches)
Weight (kg)	23.4 kg
Glass	High transparency solar glass 3.2mm (0.13 inches)
Backsheet	Transparent
Frame	Silver, anodized aluminium alloy
J-Box	IP68 Rated
Cable	4.0mm² (0.006 inches²), Portrait: 200/200mm (7.87 inches)
Number of diodes	3
Wind/Snow Load	2400Pa/ 5400Pa*
Connector	MC Compatible

* For more details please check the installation manual of GCLSI

Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	44±2°C
Temperature Coefficient of Isc	+0.06%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Pmax	-0.39%/°C

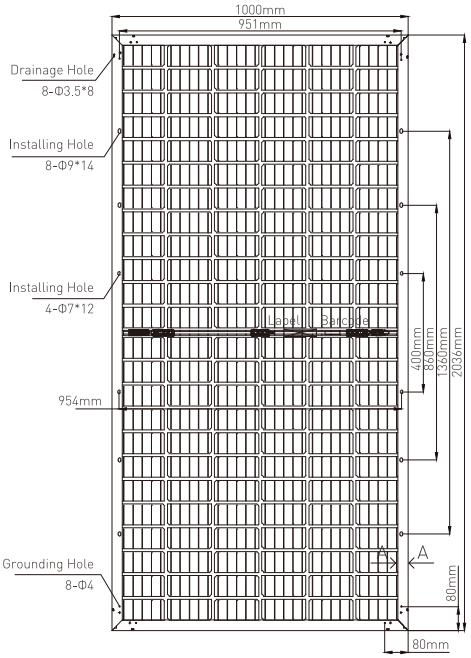
Maximum Ratings

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

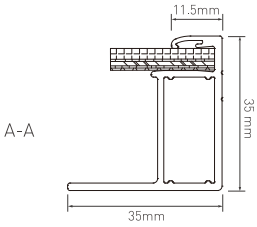
Packaging Configuration

Module per box	30 pieces
Module per 40' container	660 pieces

Module Dimension

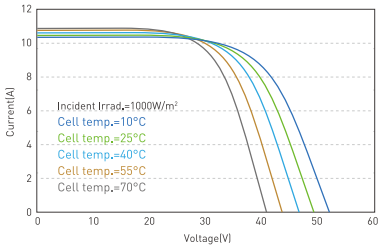


Back View

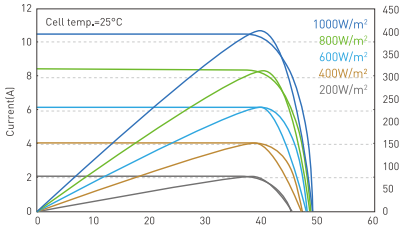


A-A

I-V Curve at Different Temperature (410W)



I-V/P-V Curve at Different Irradiation (410W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT

Contact Us for More Information

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