

GCL- NT10/72GDF

570-600 W

**Bifacial Dual Glass
Monocrystalline Module**



600W

Maximum Power Output

23.23%

Maximum Module Efficiency

0~+5W

Power Output Guarantee



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



N type technology: The N-type module has better reliability and lower LID/LETID



Ideal choice for large scale ground installation



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

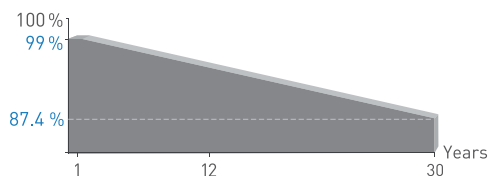
GCL Delivers Reliable Performance Over Time

- 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



12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

* 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)	570	575	580	585	590	595	600
Maximum Power Voltage	V _{mp} (V)	43.35	43.56	43.75	43.95	44.15	44.35	44.55
Maximum Power Current	I _{mp} (A)	13.15	13.20	13.26	13.31	13.37	13.42	13.47
Open Circuit Voltage	V _{oc} (V)	51.60	51.75	51.90	52.05	52.20	52.35	52.50
Short Circuit Current	I _{sc} (A)	13.89	13.95	14.01	14.07	14.13	14.19	14.25
Module Efficiency	(%)	22.07	22.26	22.45	22.65	22.84	23.03	23.23

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

Electrical Specification (NOCT*)

Maximum Power	P _{max} (W)	428.9	432.9	436.6	440.3	444.1	447.9	451.7
Maximum Power Voltage	V _{mp} (V)	40.73	40.92	41.11	41.30	41.50	41.70	41.90
Maximum Power Current	I _{mp} (A)	10.53	10.58	10.62	10.66	10.70	10.74	10.78
Open Circuit Voltage	V _{oc} (V)	49.01	49.15	49.30	49.45	49.60	49.75	49.90
Short Circuit Current	I _{sc} (A)	11.21	11.26	11.31	11.36	11.41	11.46	11.51

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

Electrical characteristics with different power bin (reference to 10% Irradiance ratio)

Maximum Power	P _{max} (W)	615.6	621.2	626.5	631.6	637.5	642.6	648.2
Maximum Power Voltage	V _{mp} (V)	43.35	43.56	43.75	43.95	44.15	44.35	44.55
Maximum Power Current	I _{mp} (A)	14.20	14.26	14.32	14.37	14.44	14.49	14.55
Open Circuit Voltage	V _{oc} (V)	51.60	51.75	51.90	52.05	52.20	52.35	52.50
Short Circuit Current	I _{sc} (A)	15.00	15.07	15.13	15.20	15.26	15.33	15.39

Mechanical Data

Number of Cells	144 Cells (6×24)
Dimensions of Module L*W*H (mm)	2278×1134×30mm (89.68×44.65×1.18 inches)
Weight (kg)	31.5 kg
Front Side Glass	2.0mm (0.08 inches), Anti-Reflection Coating
Back Side Glass	2.0mm (0.08 inches), Heat Strengthened Glass
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*
Bifaciality (%)	80±5

* 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}	+0.045%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of P _{MAX}	-0.29%/°C

Packaging Configuration

Module per box	36 pieces
Module per 40' container	720 pieces

Tolerance

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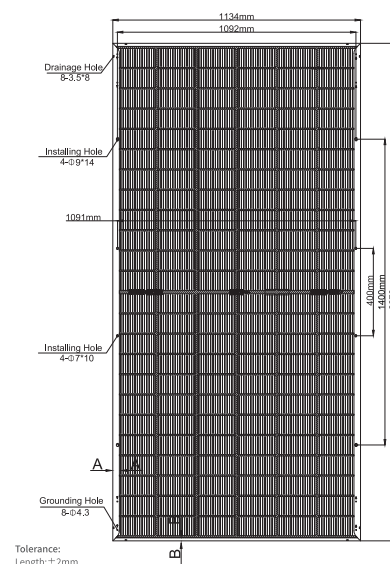
Maximum Ratings

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

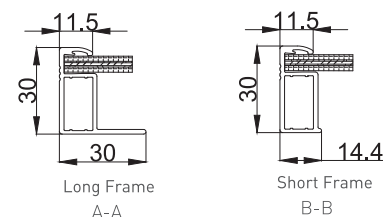
Connector

Bright	B01 / B05x	ChuangYuan	PV-CY20L / PV-CY03L
Haitian	PV-HT03	Zhonghuan	PV-ZH202B
UKT	PV-C002-xy	Zerun	Z4S-abcde
Xtong	PV-XT101.1 / PV-XT101.2 / XT2		
Staubli	PV-KST4-EVO 2/xy-UR / PV-KST4-EV02A/xy PV-KBT4-EVO 2/xy-UR / PV-KBT4-EV02A/xy		

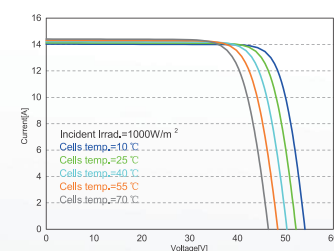
Module Dimension



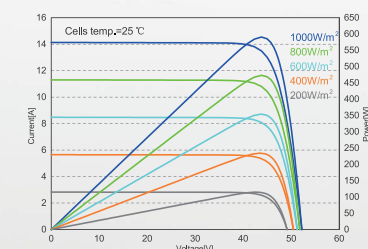
Back View



I-V Curve at Different Temperature (595W)



I-V/P-V Curve at Different Irradiation (595W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT

Contact Us for More Information

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Bringing Green Power To Life

Made in China

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