GGL NT10/72GDF

580-600 W

Bifacial Dual Glass Monocrystalline Module GRPU Frame



600W

Maximum Power Output 23.2%

Maximum Module Efficiency 0~+5W

Power Output Guarantee

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



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



Ideal choice for large scale ground installation

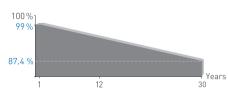


N type technology: The N-type module has better reliability and lower LID/LETID



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

Linear Performance Warranty



12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years



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



High yield strength of GRPU Frame, 990Mpa, 100% rebound after stress release, greatly reducing the potential crack of modules during service.

* 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	Pmax(W)	580	585	590	595	600
Maximum Power Voltage	Vmp(V)	43.75	43.95	44.15	44.35	44.55
Maximum Power Current	Imp(A)	13.26	13.31	13.37	13.42	13.47
Open Circuit Voltage	Voc(V)	51.90	52.05	52.20	52.35	52.50
Short Circuit Current	Isc(A)	14.01	14.07	14.13	14.19	14.25
Module Efficiency	(%)	22.4	22.6	22.8	23.0	23.2

^{*} Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

Electrical Specification (NOCT*)

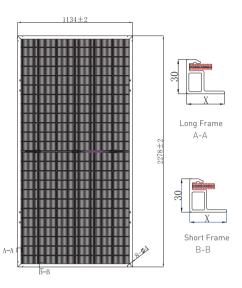
Maximum Power	Pmax (W)	436.6	440.3	444.1	447.9	451.7
Maximum Power Voltage	Vmp (V)	41.11	41.30	41.50	41.70	41.90
Maximum Power Current	Imp (A)	10.62	10.66	10.70	10.74	10.78
Open Circuit Voltage	Voc[V]	49.30	49.45	49.60	49.75	49.90
Short Circuit Current	Isc (A)	11.31	11.36	11.41	11.46	11.51

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

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

Maximum Power	Pmax (W)	626.5	631.6	637.5	642.6	648.2
Maximum Power Voltage	Vmp (V)	43.75	43.95	44.15	44.35	44.55
Maximum Power Current	Imp (A)	14.32	14.37	14.44	14.49	14.55
Open Circuit Voltage	Voc(V)	51.90	52.05	52.20	52.35	52.50
Short Circuit Current	Isc (A)	15.13	15.20	15.26	15.33	15.39

Module Dimension



^{*} only schematic diagram , the specific size is subject to the order

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	Glassfiber Reinforced Polyurethane		
J-Box	IP68 Rated		
Cable	4.0mm² , Portrait: +300/-200mm length can be customized		
Number of diodes	3		
Wind/ Snow Load	4000Pa/6000Pa*		
Connector	MC Compatible		
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 Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of PMAX	-0.29%/°C

Packaging Configuration

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

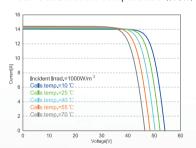
Maximum Ratings

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

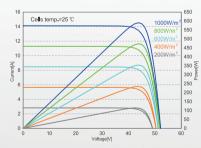
Optional

onnector:	Original MC4

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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