

SIRo **T** Efficient



GCL-NT10/78GDF

640-665W

N-type Bifacial Double Glass Module

TOPCon

Low degradation ensures reliable output over the module's lifetime

High bifaciality for superior rear-side power output

Excellent temperature coefficient ensures power generation in high temperature areas

Enhanced low-light response ensures stable output under low-light conditions

Sound quality management and product certification system

The product has obtained:

IEC61215 / IEC61730

Manufacturer has been certified :

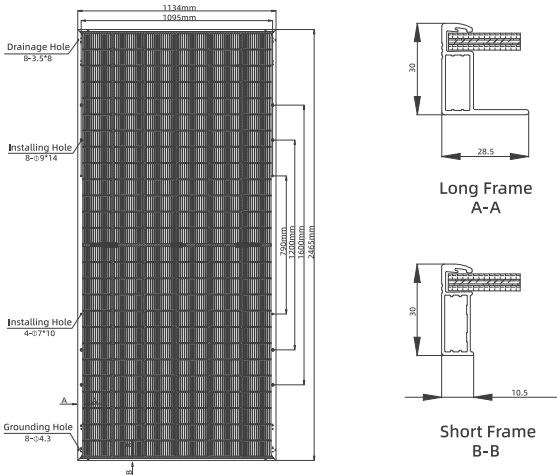
ISO 9001:2015: Quality management systems

ISO 14001:2015: Environmental management systems

ISO 45001:2018: Occupational health and safety management systems



Mechanical Data		Module Dimension	Tolerance: Length:±2mm Width:±2mm
Cell Type	N-Type Monocrystalline Solar Cell		
Number of Cells	156 Cells (6×26)		
Dimensions of Module	2465×1134×30mm (97.05×44.65×1.18 inches)		
Weight	33.6kg		
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, 3 diodes		
Cable	4.0mm ² , +300/-200mm (length can be customized)		
Connector	GCL-01/GCL-02/Others		
Packaging Configuration	Module per box: 36 pieces Module per 40' HQ: 576 pieces		



Electrical Specification (STC*) * Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass 1.5							
Maximum Power	Pmax (W)	640	645	650	655	660	665
Maximum Power Voltage	Vmp(V)	48.68	48.87	49.06	49.25	49.44	49.63
Maximum Power Current	Imp (A)	13.15	13.20	13.25	13.30	13.35	13.40
Open Circuit Voltage	Voc (V)	57.15	57.30	57.45	57.68	57.90	58.13
Short Circuit Current	Isc (A)	13.90	13.95	14.00	14.05	14.10	14.15
Module Efficiency	(%)	22.90	23.07	23.25	23.43	23.61	23.79
Power Output Guarantee	(%)	0~+3					
Temperature Coefficient of Isc	(Isc)	+0.045%/°C					
Temperature Coefficient of Voc	(Voc)	-0.25%/°C					
Temperature Coefficient of Pmax	(Pmax)	-0.29%/°C					

Electrical Characteristics with Different Power Bin (Reference to 10% Irradiance Ratio)							
Maximum Power	Pmax (W)	691.3	696.9	702.0	707.2	712.9	718.1
Maximum Power Voltage	Vmp(V)	48.68	48.87	49.06	49.25	49.44	49.63
Maximum Power Current	Imp (A)	14.20	14.26	14.31	14.36	14.42	14.47
Open Circuit Voltage	Voc (V)	57.15	57.30	57.45	57.68	57.90	58.13
Short Circuit Current	Isc (A)	15.01	15.07	15.12	15.17	15.23	15.28

Application Conditions

Operational Temperature

-40~+85°C

Maximum System Voltage

1500V DC

Max Series Fuse Rating

30A

Wind/ Snow Load

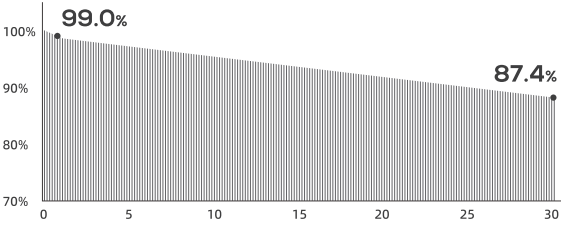
2400Pa/5400Pa*

Bifaciality

80±5%

For more details please check the installation manual of GCLSI

Linear Performance Warranty



12 year

Product warranty

30 year

Linear power warranty

1%

First year power attenuation

0.40%

Annual degradation over 30 years