

SiRo T Full Black



NT12R/54BGDF

495-520W

N-type Bifacial Double Glass Module



Designed with TOPCon 2.0 technology for higher power output and long-term reliability



Sound quality management and product certification system

IEC61215 IEC61730

ISO9001: Quality Management System

ISO14001: Environmental Management System

ISO45001: Occupational Health and Safety Management System



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

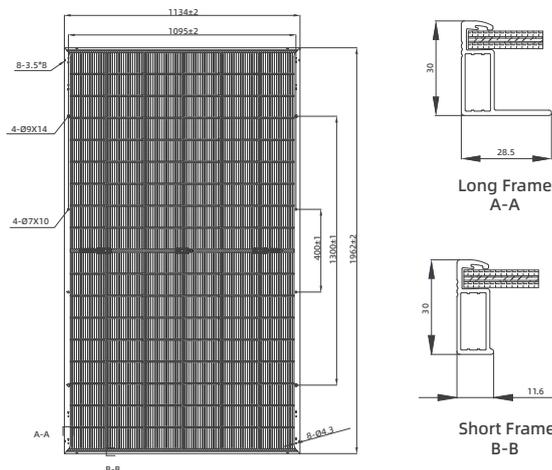
Enhanced low-light response ensures stable output under low-light conditions

Mechanical Data

Cell Type	N-Type Monocrystalline Solar Cell
Number of Cells	108 Cells (6x18)
Dimensions of Module	1962x1134x30mm (77.24x44.65x1.18 inches)
Weight	27.3kg
Front/Back Side Glass	High transparency solar glass 2.0mm
Frame	Black, anodized aluminium alloy
J-Box	IP68 Rated, 3 diodes
Cable	4.0mm ² , +300/-200mm (length can be customized)
Connector	GCL-01/GCL-02/MC4-EVO2/others
Packaging Configuration	Module per box: 36 pieces Module per 40' HQ: 864 pieces

Module Dimension

Tolerance: Length:±2mm Width:±2mm



Electrical Specification (STC*)

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

Maximum Power	Pmax (W)	495	500	505	510	515	520
Maximum Power Voltage	Vmp(V)	33.63	33.92	34.22	34.49	34.75	35.02
Maximum Power Current	Imp (A)	14.72	14.74	14.76	14.79	14.82	14.85
Open Circuit Voltage	Voc (V)	40.03	40.32	40.61	40.90	41.19	41.48
Short Circuit Current	Isc (A)	15.40	15.42	15.44	15.47	15.50	15.53
Module Efficiency	(%)	22.25	22.47	22.70	22.92	23.15	23.37
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)

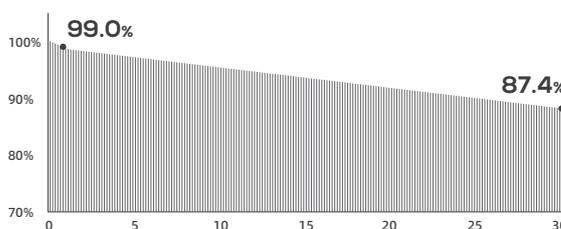
Maximum Power	Pmax (W)	534.7	540.0	545.5	550.8	556.3	561.7
Maximum Power Voltage	Vmp(V)	33.63	33.92	34.22	34.49	34.75	35.02
Maximum Power Current	Imp (A)	15.90	15.92	15.94	15.97	16.01	16.04
Open Circuit Voltage	Voc (V)	40.03	40.32	40.61	40.90	41.19	41.48
Short Circuit Current	Isc (A)	16.63	16.65	16.68	16.71	16.74	16.77

Application Conditions

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	35A
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