

SIRo ^B Full Black

GCL-NR10R/54BGDF

475-500W

N-Type Bifacial Dual-Glass
High-Efficiency Module



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



Higher Power

Efficient back contact
Max full-screen design

Fearless Shading

No downtime
Lower hotspots risk

Enhanced Reliability

Front grid-free design
Lower micro-crack risks

Architectural Elegance

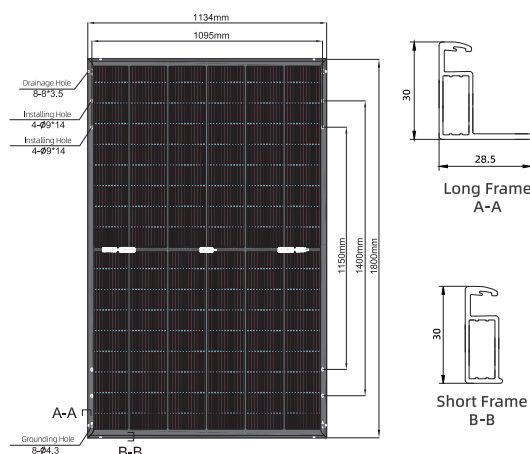
Concealed tech
Elevated beauty

Product Specifications

Cell type	GPC (Graphical Precise-doping Contact)
Number of cells	108 Cells (6×18)
Dimensions	1800×1134×30mm (70.87×44.65×1.18 inches)
Weight	24.6 kg
Front side glass	2.0mm (0.08 inches), Anti-Reflection Coating
Back side glass	2.0mm (0.08 inches), Heat Strengthened Glass
Frame	Black, anodized aluminium alloy
J-box	IP68, three diodes
Cable	4 mm ² , ±1200mm, length can be customized
Connector	GCL-01/GCL-02/MC4-EVO2A/others
Packaging Configuration	Module per box: 36 pieces Module per 40' HQ: 864 pieces

Back View

Tolerance: Length:±2mm Width:±2mm



Electrical Specification (STC)

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

Maximum power	Pmax (W)	475	480	485	490	495	500
Maximum power voltage	Vmp(V)	33.63	33.85	34.07	34.28	34.50	34.71
Maximum power current	Imp (A)	14.12	14.18	14.24	14.29	14.35	14.41
Open circuit voltage	Voc (V)	40.37	40.47	40.57	40.67	40.77	40.87
Short circuit current	Isc (A)	14.96	15.02	15.08	15.14	15.20	15.26
Module efficiency	(%)	23.27	23.52	23.76	24.01	24.25	24.50
Power tolerance	(%)	0~+3					
Temperature coefficient	(Isc)	+0.05%/°C					
Temperature coefficient	(Voc)	-0.22%/°C					
Temperature coefficient	(Pmax)	-0.26%/°C					

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

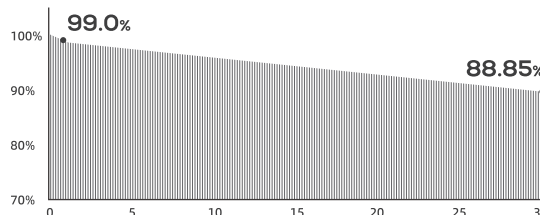
Maximum power	Pmax (W)	503.5	508.8	514.1	519.4	524.7	530.0
Maximum power voltage	Vmp(V)	33.63	33.85	34.07	34.28	34.50	34.71
Maximum power current	Imp (A)	14.97	15.03	15.09	15.15	15.21	15.27
Open circuit voltage	Voc (V)	40.37	40.47	40.57	40.67	40.77	40.87
Short circuit current	Isc (A)	15.86	15.92	15.98	16.05	16.11	16.18

Application Conditions

Operational temperature	-40~+85°C
Maximum system voltage	1500V DC
Max series fuse rating	30A
Wind/ snow load	2400Pa/5400Pa*

*For detailed information, please refer to the GCL SI Installation Manual.

Power Warranty

**30**Year
Product Warranty**30**Year
Linear Power Warranty**1%**
First-Year Power Degradation**0.35%**
Linear Power Degradation