

# SiRo **B** Full Black

NR10R/54BGDF

# 475-500W

N-Type Bifacial Dual-Glass  
High-Efficiency Module



Comprehensive quality management and product certification systems

ISO9001: Quality Management System

ISO14001: Environmental Management System

ISO45001: Occupational Health and Safety Management System

### 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

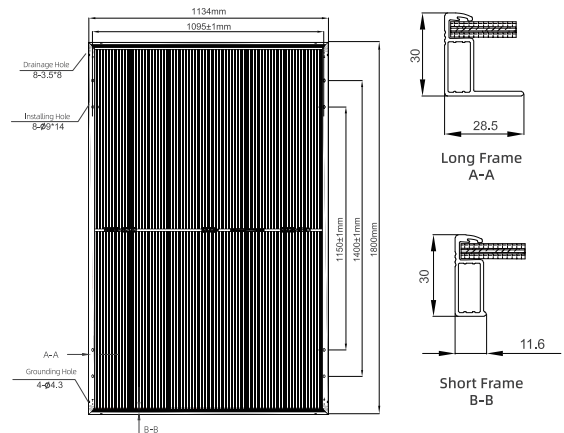
Concealed tech  
Elevated beauty

## 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	24.8kg
Front/back side glass	2.0mm High transparency solar glass
Frame	Black, anodized aluminium alloy
J-box	IP68, three diodes
Cable	4 mm <sup>2</sup> , ±1200mm, 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

## Back View

Tolerance: Length:±2mm Width:±2mm



## Electrical Specification (STC) Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

	Pmax (W)	475	480	485	490	495	500
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)

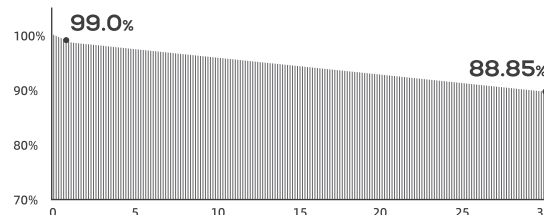
	Pmax (W)	503.5	508.8	514.1	519.4	524.7	530.0
Maximum power	Pmax (W)	503.5	508.8	514.1	519.4	524.7	530.0
Maximum power voltage	Vmp(V)	33.63	33.85	34.07	34.28	34.50	34.71
Maximum power current	Imp (A)	14.97	15.03	15.09	15.15	15.21	15.27
Open circuit voltage	Voc (V)	40.37	40.47	40.57	40.67	40.77	40.87
Short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