

SiRo **B** Efficient



NR10R/54GDF

480-505W

N-Type Bifacial Dual-Glass
High-Efficiency Module

GPC 3.0
Tech



Sound product certification and management system certification

The product has obtained certifications to IEC 61215 and IEC 61730. The manufacturer has been certified in accordance with the ISO 9001 Quality Management System, ISO 14001 Environmental Management System and ISO 45001 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

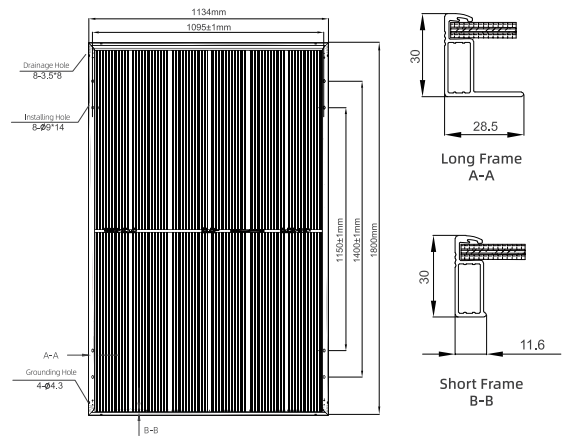
Concealed tech
Elevated beauty

Product Specifications

Cell type	GPC (Graphical Precise-doping Contact)
Number of cells	108 Cells (6x18)
Dimensions	1800x1134x30mm (70.87x44.65x1.18 inches)
Weight	24.8kg
Front/back side glass	2.0mm High transparency solar glass
Frame	Anodized aluminium alloy (Black/White)
J-box	IP68, three diodes
Cable	4 mm ² , ±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/m², Cell Temperature 25°C, Air Mass 1.5

Maximum power	Pmax (W)	480	485	490	495	500	505
Maximum power voltage	Vmp(V)	33.85	34.07	34.28	34.50	34.71	34.92
Maximum power current	Imp (A)	14.18	14.24	14.29	14.35	14.41	14.46
Open circuit voltage	Voc (V)	40.47	40.57	40.67	40.77	40.87	40.97
Short circuit current	Isc (A)	15.02	15.08	15.14	15.20	15.26	15.32
Module efficiency	(%)	23.52	23.76	24.01	24.25	24.50	24.74
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)

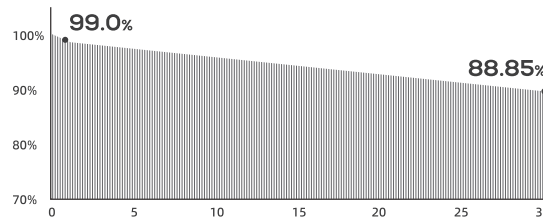
Maximum power	Pmax (W)	508.8	514.1	519.4	524.7	530.0	535.3
Maximum power voltage	Vmp(V)	33.85	34.07	34.28	34.50	34.71	34.92
Maximum power current	Imp (A)	15.03	15.09	15.15	15.21	15.27	15.33
Open circuit voltage	Voc (V)	40.47	40.57	40.67	40.77	40.87	40.97
Short circuit current	Isc (A)	15.92	15.98	16.05	16.11	16.18	16.24

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



15 Year (Extendable to 25 years)
Product Warranty

30 Year
Linear Power Warranty

1%
First-Year Power Degradation

0.35%
Linear Power Degradation