

SiRo B Efficient



GCL-NR10R/54GDF

480-505W

N-Type Bifacial Dual-Glass
High-Efficiency Module

GPC 3.0
Tech



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

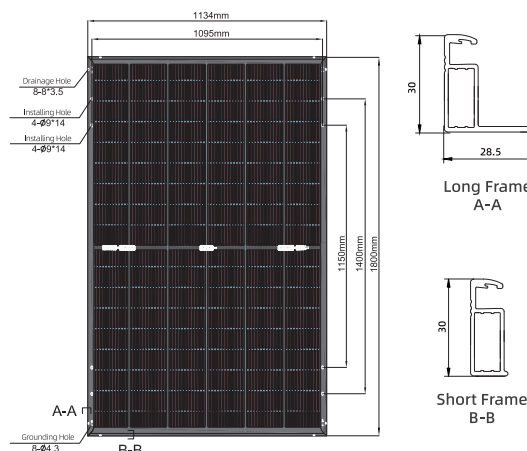
Concealed tech
Elevated beauty

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	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-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	P _{max} (W)	480	485	490	495	500	505
Maximum power voltage	V _{mp} (V)	33.85	34.07	34.28	34.50	34.71	34.92
Maximum power current	I _{mp} (A)	14.18	14.24	14.29	14.35	14.41	14.46
Open circuit voltage	V _{oc} (V)	40.47	40.57	40.67	40.77	40.87	40.97
Short circuit current	I _{sc} (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	(I _{sc})	+0.05%/°C					
Temperature coefficient	(V _{oc})	-0.22%/°C					
Temperature coefficient	(P _{max})	-0.26%/°C					

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

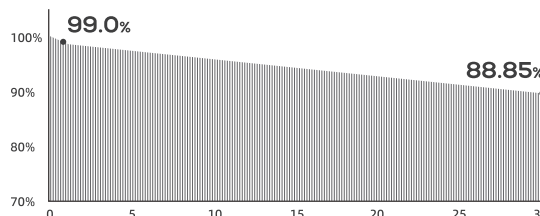
Maximum power	P _{max} (W)	508.8	514.1	519.4	524.7	530.0	535.3
Maximum power voltage	V _{mp} (V)	33.85	34.07	34.28	34.50	34.71	34.92
Maximum power current	I _{mp} (A)	15.03	15.09	15.15	15.21	15.27	15.33
Open circuit voltage	V _{oc} (V)	40.47	40.57	40.67	40.77	40.87	40.97
Short circuit current	I _{sc} (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 Warranty30 Year
Linear Power Warranty1%
First-Year Power Degradation0.35%
Linear Power Degradation