

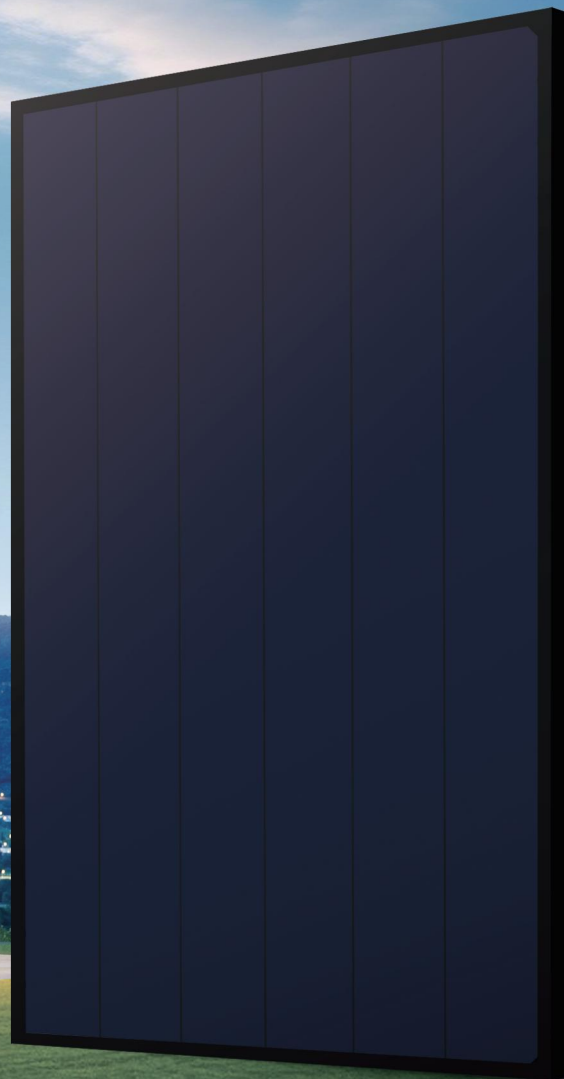
Sirio Full Black

NR10R/54BGDF

475-500W

N-Type Bifacial Dual-Glass
High-Efficiency Module

 **GPC** 3.0
Tech



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

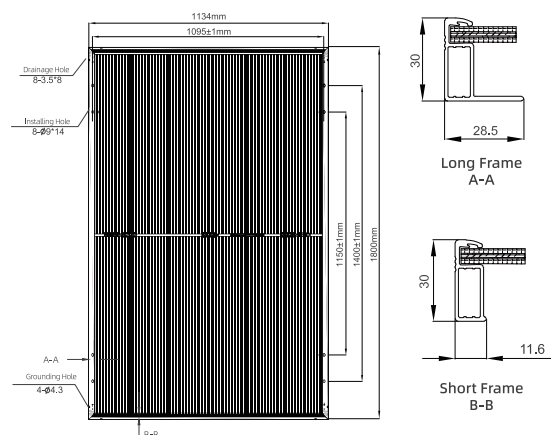
Concealed tech
Elevated beauty

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 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	P _{max} (W)	475	480	485	490	495	500
Maximum power voltage	V _{mp} (V)	33.63	33.85	34.07	34.28	34.50	34.71
Maximum power current	I _{mp} (A)	14.12	14.18	14.24	14.29	14.35	14.41
Open circuit voltage	V _{oc} (V)	40.37	40.47	40.57	40.67	40.77	40.87
Short circuit current	I _{sc} (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	(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)	503.5	508.8	514.1	519.4	524.7	530.0
Maximum power voltage	V _{mp} (V)	33.63	33.85	34.07	34.28	34.50	34.71
Maximum power current	I _{mp} (A)	14.97	15.03	15.09	15.15	15.21	15.27
Open circuit voltage	V _{oc} (V)	40.37	40.47	40.57	40.67	40.77	40.87
Short circuit current	I _{sc} (A)	15.86	15.92	15.98	16.05	16.11	16.18

Application Conditions

Operational temperature -40~+85°C

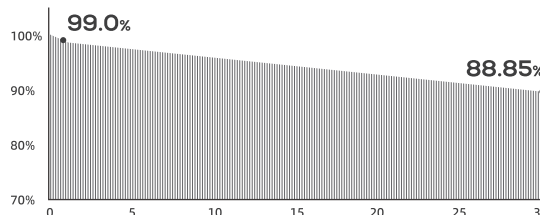
Maximum system voltage 1500V DC

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