

Gokin

GBC Module with Dual Glass
Full-screen All Black
GK-3-54HGFD**b**

460-490W

-  Superior Temperature coefficient
-  Higher Generated Energy
-  Full-screen Technology
-  Lower BOS
-  Excellent Micro-crack Resistance
-  High Temperature Restriction
-  Partial Shading Optimisation
-  Extraordinary Aesthetic Design

24.5%

Module Efficiency up to

≤1% First-year Degradation

≤0.35% Annual Degradation



Product Warranty



Linear Power Warranty



- Operating Temperature

-40℃ ~ +85℃
- Power Tolerance

0~+3%
- Junction Box

IP68
- NOCT

45±2℃
- Maximum Series Fuse Rating

30A
- Bifacial Factor

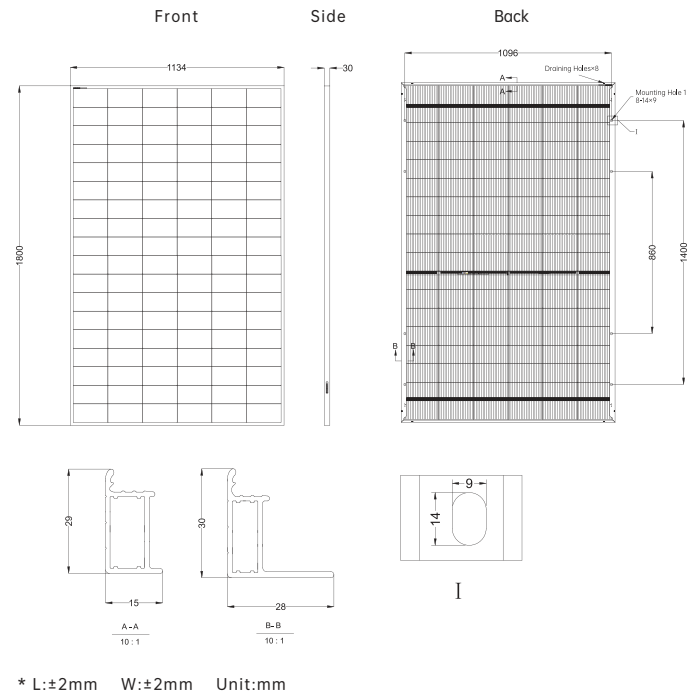
70±5%
- Maximum System Voltage

1500V(IEC)

Mechanical Parameters

Cell Type	GBC
No. of cells	108 (6×18)
Glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Black anodized aluminum
Output Cables	TüV 1×4mm², (+)300mm, (-)200mm or Customized Length
Weight	24.8kg (54.67lbs)
Dimension	1800×1134×30mm
Connector	MC4 Compatible/MC4-Evo2
Packaging	37 pcs per pallet 222 pcs per 20' GP 888 pcs per 40' HC
Protection Class	Class II
Fire Rating	IEC Class C

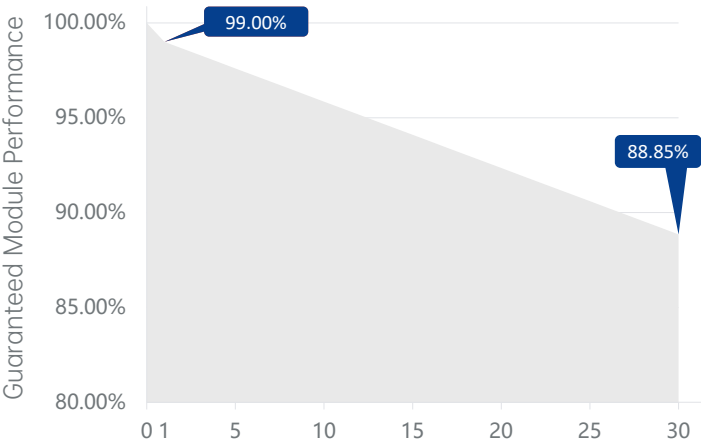
Engineering Drawings



Electrical Characteristics (STC Test)

Module Type	GK-3-54HGFDb-460M	GK-3-54HGFDb-465M	GK-3-54HGFDb-470M	GK-3-54HGFDb-475M	GK-3-54HGFDb-480M	GK-3-54HGFDb-485M	GK-3-54HGFDb-490M
Testing Condition	STC	STC	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	460	465	470	475	480	485	490
Open-circuit Voltage (Voc/V)	40.50	40.60	40.70	40.80	40.90	41.00	41.10
Maximum Power Voltage (Vmp/V)	34.10	34.20	34.30	34.40	34.50	34.60	34.70
Short-circuit Current (Isc/A)	14.66	14.69	14.72	14.76	14.80	14.84	14.88
Maximum Power Current (Imp/A)	13.50	13.60	13.71	13.81	13.92	14.02	14.13
Module Efficiency (%)	23.0	23.3	23.5	23.8	24.0	24.3	24.5

1、STC: Irradiance 1000W/M², Cell Temperature25℃, AM=1.5 2、NOCT: Irradiance 800W/M², Ambient Temperature 20℃, AM=1.5, Wind Speed 1M/S



Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.05%/℃
Temperature Coefficient of Voc	-0.22%/℃
Temperature Coefficient of Pmax	-0.26%/℃

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25 mm diameter hail at 23 m/s