

Gokin

GBC Module with Single Glass
All Black GK-3-54HGb

470-500W

- Superior Temperature coefficient
- Higher Generated Energy
- Higher Reliability
- 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°C ~ +85°C
- Power Tolerance

0~+3%
- Junction Box

IP68
- NOCT

45±2°C
- Maximum Series Fuse Rating

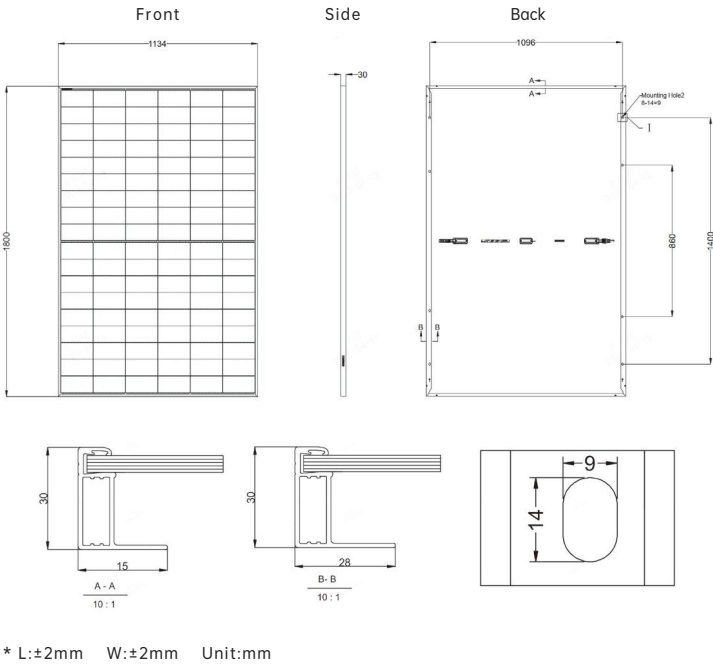
25A
- Maximum System Voltage

1500V(IEC)

Mechanical Parameters

Cell Type	GBC
No. of cells	108 (6×18)
Glass	3.2 mm tempered glass
Frame	Black anodized aluminum
Output Cables	TüV 1×4mm², (+)300mm, (-)200mm or Customized Length
Weight	21.4 kg (47.18 lbs)
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

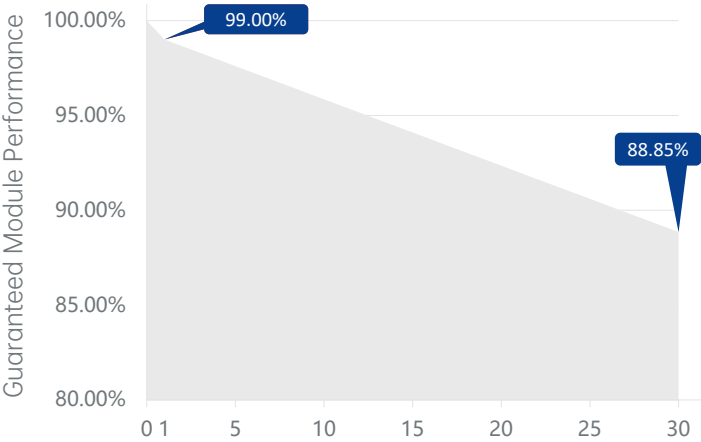
Engineering Drawings



Electrical Characteristics (STC Test)

Module Type	GK-3-54HGb-470M		GK-3-54HGb-475M		GK-3-54HGb-480M		GK-3-54HGb-485M		GK-3-54HGb-490M		GK-3-54HGb-495M		GK-3-54HGb-500M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	470	354	475	358	480	362	485	366	490	370	495	373	500	377
Open-circuit Voltage (Voc/V)	40.37	38.12	40.51	38.26	40.65	38.39	40.79	38.52	40.93	38.65	41.07	38.79	41.21	38.92
Maximum Power Voltage (Vmp/V)	33.48	31.62	33.58	31.71	33.68	31.81	33.78	31.90	33.88	32.00	33.98	32.09	34.08	32.19
Short-circuit Current (Isc/A)	14.86	12.02	14.93	12.07	15.00	12.13	15.07	12.19	15.14	12.24	15.21	12.30	15.28	12.36
Maximum Power Current (Imp/A)	14.05	11.21	14.15	11.29	14.26	11.38	14.37	11.47	14.47	11.55	14.58	11.63	14.68	11.72
Module Efficiency (%)	23.0		23.3		23.5		23.8		24.0		24.3		24.5	

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



Temperature Ratings (stc)

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

Mechanical Loading

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



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Product data is updated as of Nov. 2024. Gokin Solar Co., Ltd. reserves the right to change specifications.