









Gokin



GBC Classic Module with
Dual Glass All Black GK-3-54HGDb

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

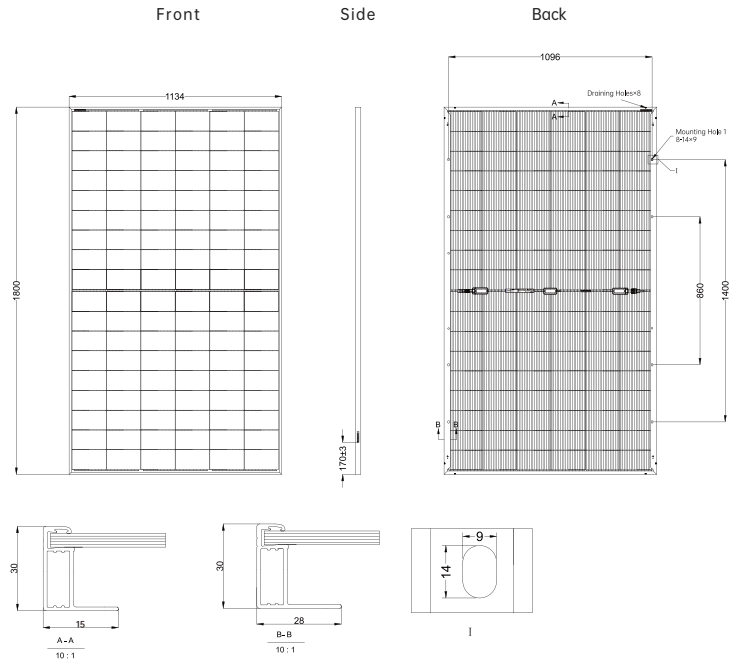


- Operating Temperature **-40°C ~ +85°C**
- Power Tolerance **0~+3%**
- Junction Box **IP68**
- NOCT **45±2°C**
- Maximum Series Fuse Rating **25A**
- Maximum System Voltage **1500V(IEC)**

Mechanical Parameters

Cell Type	GBC
No. of cells	108 (6×18)
Glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Black anodized aluminum
Output Cables	TüV 1×4mm ² , (+)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



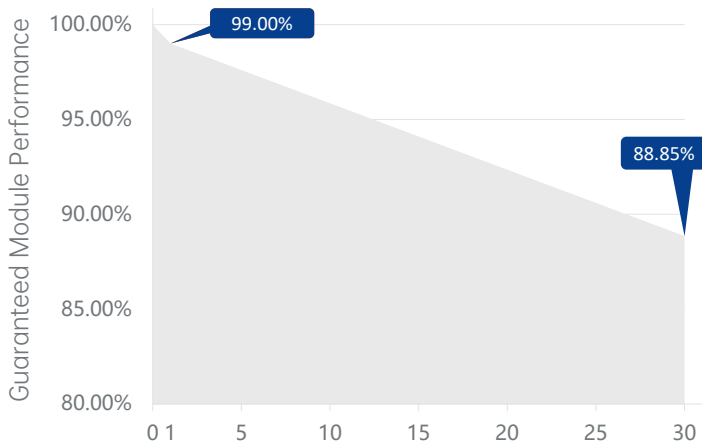
* L:±2mm W:±2mm Unit:mm

Electrical Characteristics (STC Test)

Module Type	GK-3-54HGDb-470M		GK-3-54HGDb-475M		GK-3-54HGDb-480M		GK-3-54HGDb-485M		GK-3-54HGDb-490M		GK-3-54HGDb-495M		GK-3-54HGDb-500M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	470	357	475	361	480	364	485	368	490	372	495	375	500	379
Open-circuit Voltage (Voc/V)	40.50	38.42	40.63	38.55	40.76	38.67	40.89	38.80	41.02	38.92	41.15	39.04	41.28	39.16
Maximum Power Voltage (Vmp/V)	33.64	31.92	33.74	32.01	33.84	31.11	33.94	32.20	34.04	32.30	34.14	32.40	34.24	32.49
Short-circuit Current (Isc/A)	14.82	11.97	14.89	12.03	14.96	12.09	15.03	12.15	15.10	12.21	15.17	12.26	15.24	12.32
Maximum Power Current (Imp/A)	13.98	11.17	14.09	11.27	14.19	11.35	14.30	11.44	14.40	11.51	14.50	11.59	14.60	11.67
Module Efficiency (%)	23.0		23.3		23.5		23.8		24.0		24.3		24.5	

1, STC: Irradiance 1000W/M², Cell Temperature 25°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**