

Gokin

GBC Module with Dual Glass All Black
GK-5-54HGDb

445-485W

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

24.3%

Module Efficiency up to

≤1% First-year Degradation

≤0.35% Annual Degradation



Product Warranty



Linear Power Warranty

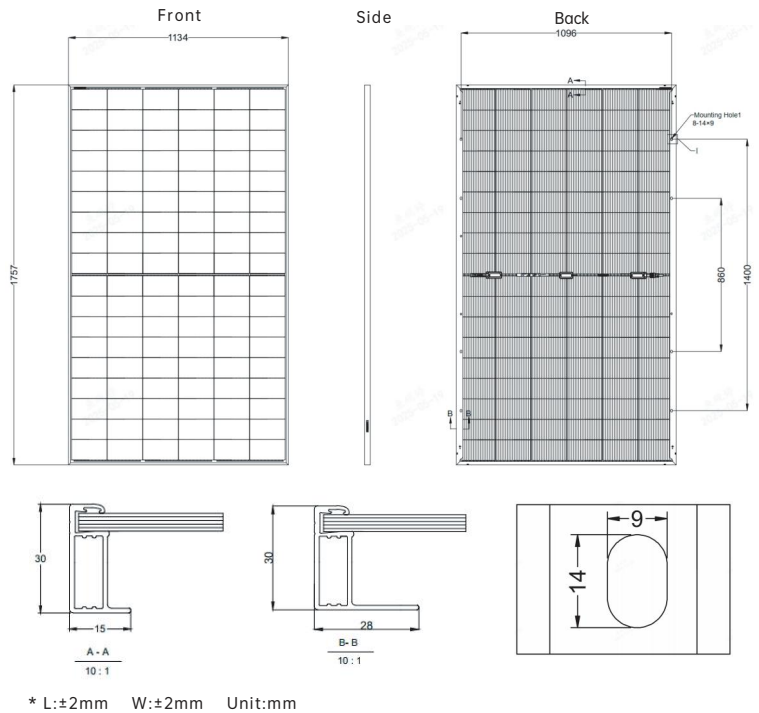


- Operating Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Power Tolerance $0 \sim +3\%$
- Junction Box IP68
- NOCT $45 \pm 2^{\circ}\text{C}$
- Maximum Series Fuse Rating 25A
- Bifacial Factor $70 \pm 5\%$
- Maximum System Voltage 1500V(IEC)

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 1×4mm , (+)300mm, (-)200mm or Customized Length
Weight	24.3 kg (53.57 lbs)
Dimension	1757×1134×30mm
Connector	MC4 Compatible/MC4-Evo2
Packaging	37 pcs per pallet 222 pcs per 20' GP 962 pcs per 40' HC
Protection Class	Class II
Fire Rating	IEC Class A

Engineering Drawings

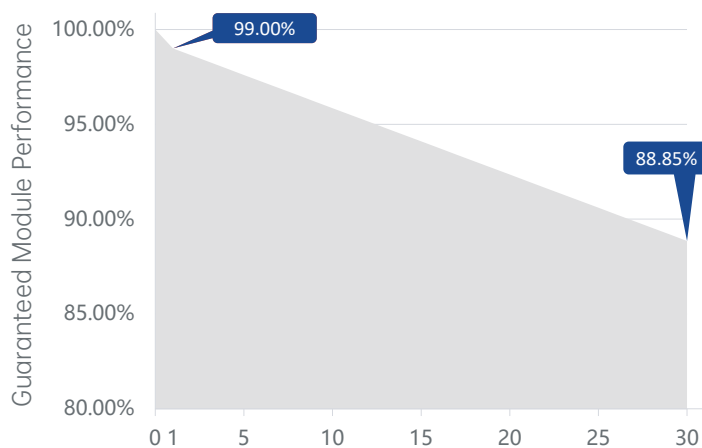


Electrical Characteristics (STC Test)

Module Type	GK-5-54HGDb-445M		GK-5-54HGDb-450M		GK-5-54HGDb-455M		GK-5-54HGDb-460M		GK-5-54HGDb-465M		GK-5-54HGDb-470M		GK-5-54HGDb-475M		GK-5-54HGDb-480M		GK-5-54HGDb-485M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	445	335	450	339	455	343	460	346	465	350	470	354	475	358	480	362	485	366
Open-circuit Voltage (Voc/V)	40.88	38.60	40.94	38.66	41.00	38.72	41.06	38.77	41.12	38.83	41.18	38.89	41.24	38.95	41.30	39.01	41.36	39.07
Maximum Power Voltage (Vmp/V)	34.44	32.52	34.50	32.58	34.56	32.64	34.62	32.69	34.68	32.75	34.74	32.81	34.80	32.86	34.86	32.92	34.92	32.98
Short-circuit Current (Isc/A)	14.02	11.34	14.12	11.42	14.22	11.50	14.25	11.52	14.29	11.55	14.32	11.58	14.36	11.62	14.41	11.66	14.47	11.70
Maximum Power Current (Imp/A)	12.93	10.32	13.05	10.41	13.17	10.51	13.29	10.61	13.41	10.71	13.54	10.80	13.66	10.90	13.78	11.00	13.90	11.10
Module Efficiency (%)	22.3		22.6		22.8		23.1		23.3		23.6		23.8		24.1		24.3	

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

Gokin



Gokin Solar Co., Ltd.
https://www.gokinsolar.com
gk@gokinsolar.com

Office 1102, No. 58 Huajin Street, Hengqin Free Trade Zone, Zhuhai City, Guangdong Province, China.
Product data is updated as of Nov. 2024. Gokin Solar Co., Ltd. reserves the right to change specifications.