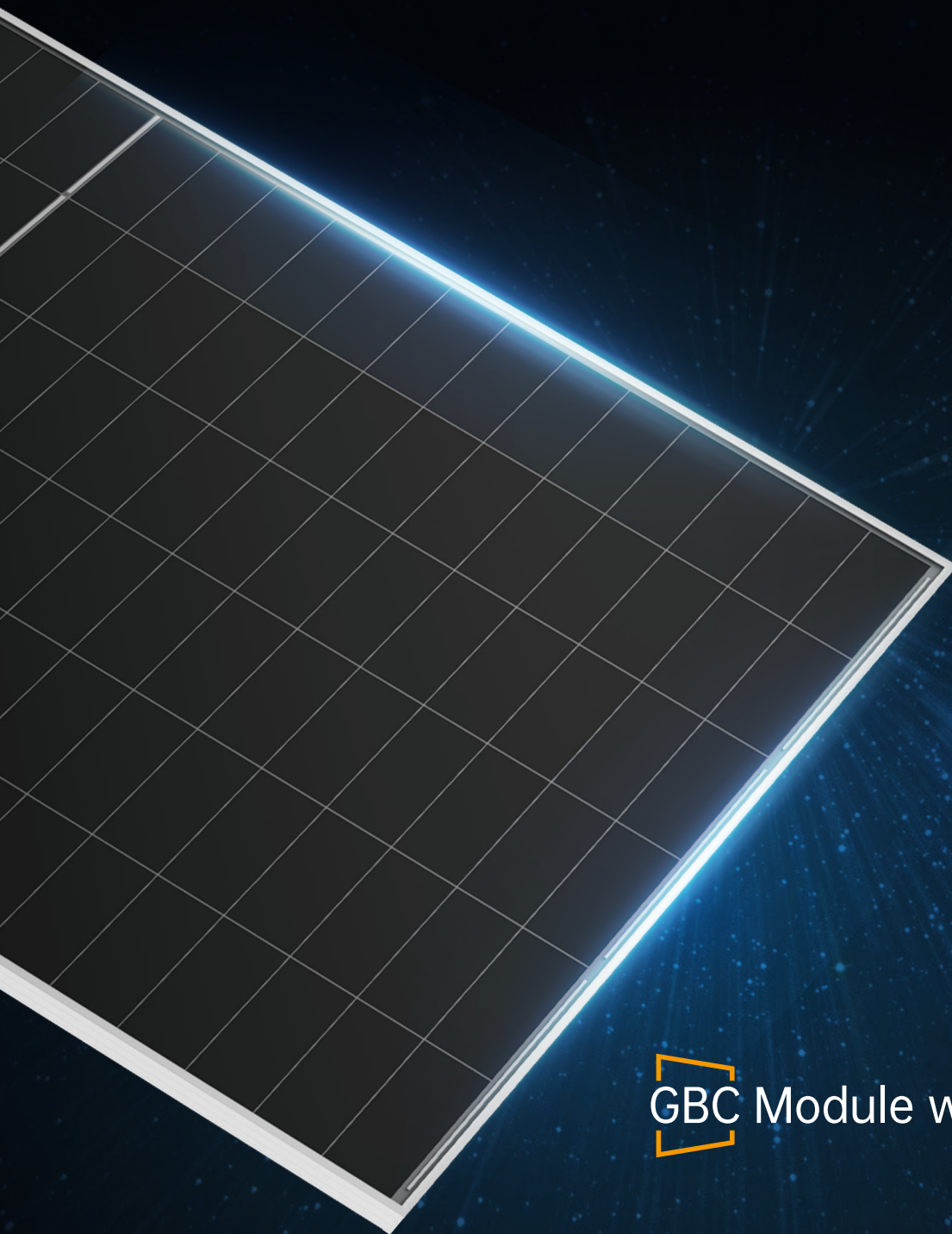


Gokin



GBC Module with Dual Glass
GK-1-78HGBD

655-685W

- ⚡ 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

30A

• Bifacial Factor

70±5%

• Maximum System Voltage

1500V(IEC)

Mechanical Parameters

Cell Type	GBC
No. of cells	156 (6×26)
Glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Anodized aluminum
Output Cables	TüV 1×4mm², (+)300mm, (-) 200mm or Customized Length
Weight	34.5kg (76.06lbs)
Dimension	2465×1134×30mm
Connector	MC4 Compatible
Packaging	36 pcs per pallet 144 pcs per 20' GP, 576 pcs per 40' HC
Protection Class	Class II
Fire Rating	IEC Class A

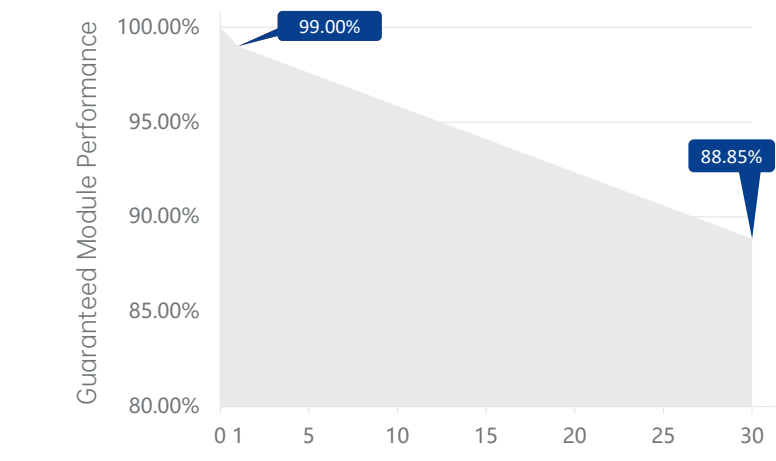
Engineering Drawings

* L:±2mm W:±2mm Unit:mm

Electrical Characteristics (STC Test)

Module Type	GK-1-78HGBD-655M		GK-1-78HGBD-660M		GK-1-78HGBD-665M		GK-1-78HGBD-670M		GK-1-78HGBD-675M		GK-1-78HGBD-680M		GK-1-78HGBD-685M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	655	493	660	497	665	501	670	505	675	508	680	512	685	516
Open-circuit Voltage (Voc/V)	58.74	55.47	58.80	55.53	58.86	55.58	58.92	55.64	58.98	55.70	59.04	55.75	59.10	55.81
Maximum Power Voltage (Vmp/V)	48.61	45.91	48.67	45.97	48.73	46.02	48.79	46.08	48.85	46.14	48.91	46.19	48.97	46.20
Short-circuit Current (Isc/A)	14.21	11.49	14.28	11.55	14.35	11.61	14.42	11.66	14.49	11.72	14.56	11.78	14.63	11.84
Maximum Power Current (Imp/A)	13.48	10.76	13.57	10.82	13.65	10.89	13.74	10.96	13.82	11.03	13.91	11.10	13.99	11.17
Module Efficiency (%)	23.4		23.6		23.8		24.0		24.1		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