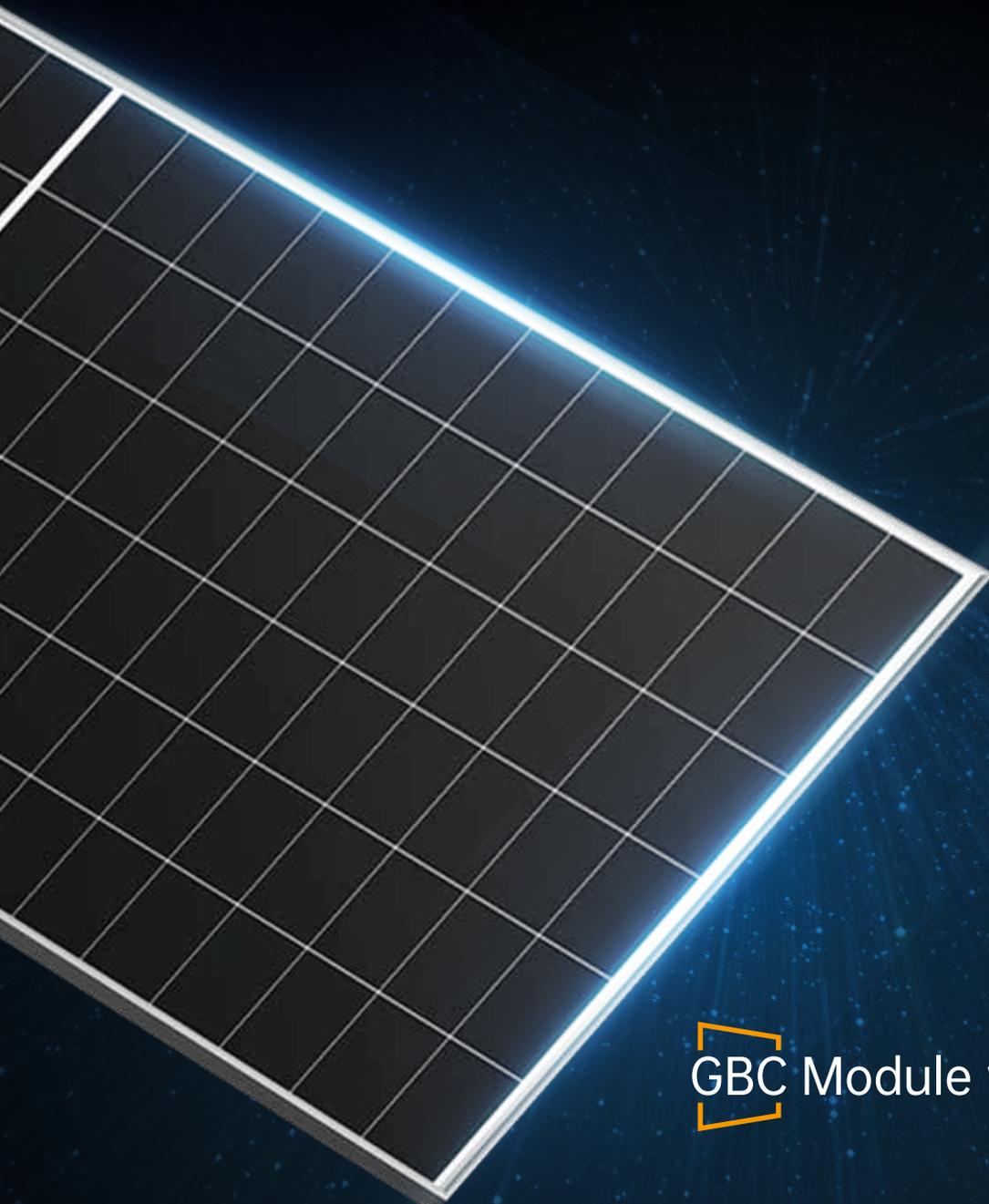


Gokin



GBC Module with Dual Glass
GK-3-72HGBD

635-665W

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

24.6%

Module Efficiency up to

≤1% First-year Degradation

≤0.35% Annual Degradation



Product Warranty



Linear Power Warranty

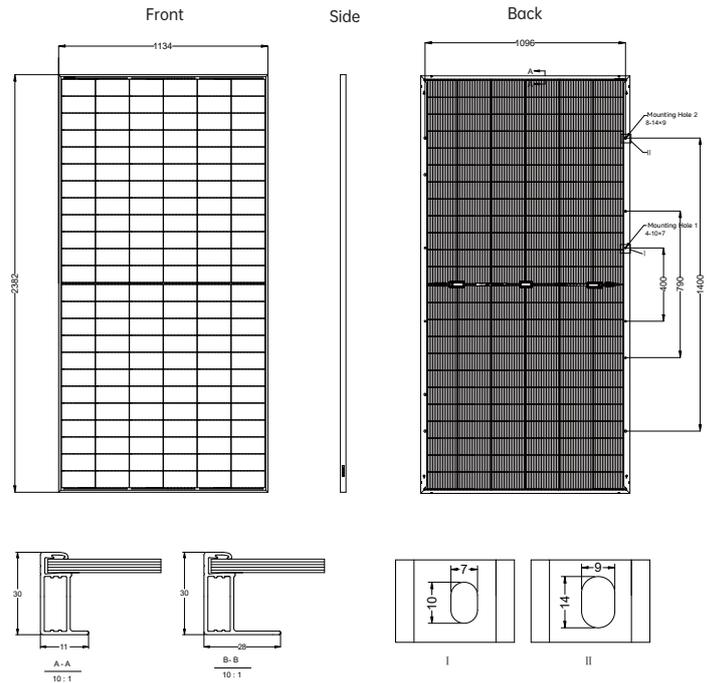


- Operating Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Power Tolerance $0 \sim +3\%$
- Junction Box IP68
- NOCT $45 \pm 2^{\circ}\text{C}$
- Maximum Series Fuse Rating 30A
- Maximum System Voltage 1500V(IEC)

Mechanical Parameters

Cell Type	GBC
No. of cells	144 (6×24)
Glass	Dual glass, 2.0+2.0mm Heat Strengthened Glass
Frame	Anodized aluminum
Output Cables	TüV 1×4mm ² , (+)300mm, (-) 200mm or Customized Length
Weight	33.5kg (73.85lbs)
Dimension	2382×1134×30mm
Connector	MC4 Compatible/MC4-Evo2
Packaging	37 pcs per pallet 148 pcs per 20' GP, 740 pcs per 40' HC
Protection Class	Class II
Fire Rating	IEC Class C

Engineering Drawings



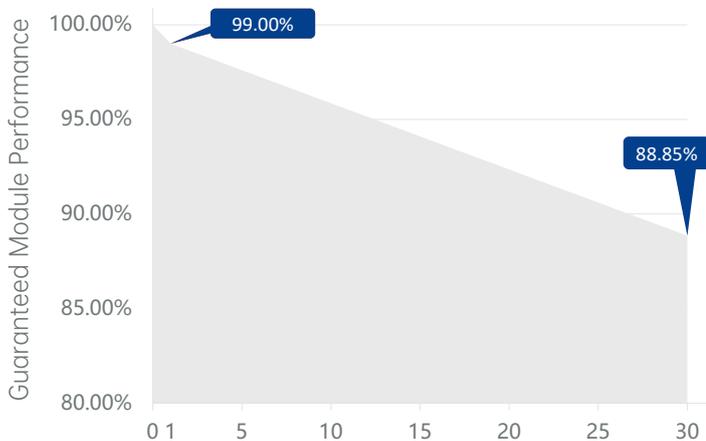
* L:±2mm W:±2mm Unit:mm

Electrical Characteristics (STC Test)

Module Type	GK-3-72HGBD-635M		GK-3-72HGBD-640M		GK-3-72HGBD-645M		GK-3-72HGBD-650M		GK-3-72HGBD-655M		GK-3-72HGBD-660M		GK-3-72HGBD-665M	
	STC	NOCT												
Testing Condition	STC	NOCT												
Maximum Power (Pmax/W)	635	481	640	485	645	489	650	493	655	496	660	500	665	504
Open-circuit Voltage (Voc/V)	53.70	50.95	53.80	51.04	53.90	51.14	54.00	51.23	54.10	51.33	54.20	51.42	54.30	51.51
Maximum Power Voltage (Vmp/V)	45.00	42.69	45.10	42.79	45.20	42.88	45.30	42.98	45.40	43.07	45.50	43.17	45.60	43.27
Short-circuit Current (Isc/A)	14.88	12.02	14.94	12.07	15.00	12.12	15.06	12.17	15.12	12.22	15.18	12.27	15.24	12.32
Maximum Power Current (Imp/A)	14.12	11.29	14.20	11.35	14.27	11.41	14.35	11.48	14.43	11.54	14.51	11.60	14.59	11.66
Module Efficiency (%)	23.5		23.7		23.9		24.1		24.2		24.4		24.6	

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