

Gokin

TOPCon Bifacial Module with Dual Glass

GK-2-66HTBD | Half-cut | 132cells

670-700W

22.5%

Module Efficiency up to

≤1% First-year Degradation

≤0.4% Annual Degradation



High Efficiency

Module efficiency up to 22.5% based on N-Type wafer and TOPCon technology



Anti-degradation

Unsusceptible to LID, LeTID and less annual degradation due to special characteristics of N-Type



Excellent Energy Yield

More power output in field operation due to better thermal behaviors, weak-light performance and bifaciality



Quality Guarantee

High module quality ensures long-term reliability

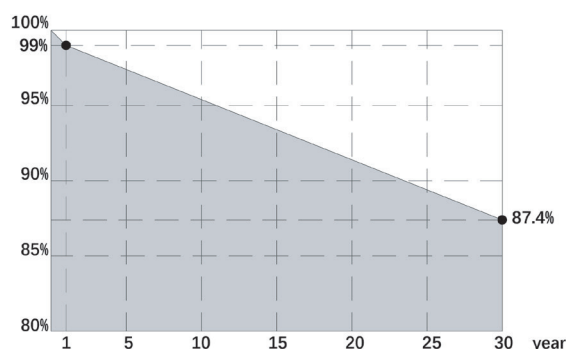


15 Years Product Warranty



30 Years Linear Power Warranty

Linear Performance Warranty



At least 99% of nominal power during first year;
Thereafter max.0.4% degradation per year;
At least 87.4% of nominal power up to 30 years.



IEC 61215(2021) / IEC 61730(2023)
ISO 9001: 2015: ISO Quality Management System
Anti-PID / Ammonia / Salt-mist / Dust and sand

- Operating Temperature

-40°C ~ +85°C
- Power Tolerance

0~+5W
- Junction Box

IP68
- NOCT

45±2°C
- Maximum Series Fuse Rating

35A
- Bifacial Factor

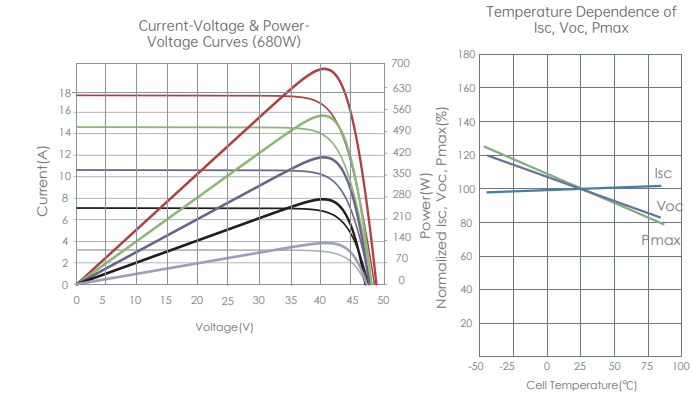
80±5%
- Maximum System Voltage

1500V(IEC)

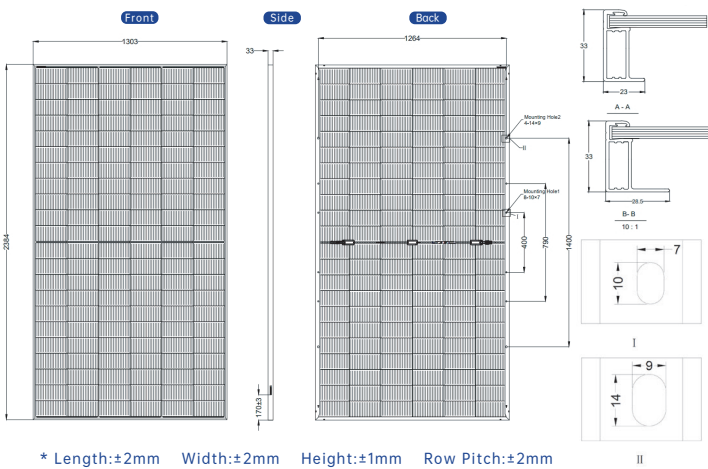
Mechanical Parameters

Cell Type	TOPCon
No. of cells	132 (2×66)
Output Cables	TüV 1×4mm ²
	(+)350mm,(-)280mm in length or customized length
Glass	Front: 2.0mm, AR-coating, semi-tempered
	Rear: 2.0mm, semi-tempered
Frame	Anodized aluminum alloy frame
Weight	37.1 kg (81.79 lbs)
Dimension	2384×1303×33mm
Packaging	33 pcs per pallet
	Package size(mm): 2405×1120×1428
Packaging	132 pcs per 20' HC, 264 pcs per 40' HC
Protection Class	Class II

Electrical Performance



Engineering Drawings



Electrical Characteristics (STC Test)

Module Type	GK-2-66HTBD-670M		GK-2-66HTBD-675M		GK-2-66HTBD-680M		GK-2-66HTBD-685M		GK-2-66HTBD-690M		GK-2-66HTBD-695M		GK-2-66HTBD-700M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	670	506	675	510	680	514	685	518	690	521	695	525	700	529
Open-circuit Voltage (Voc/V)	46.50	44.00	46.70	44.16	46.90	44.37	47.10	44.62	47.30	44.79	47.50	45.01	47.90	45.36
Short-circuit Current (Isc/A)	17.90	14.44	17.93	14.46	17.96	14.48	17.99	14.51	18.02	14.53	18.05	14.56	18.08	14.58
Maximum Power Voltage (Vmp/V)	39.90	37.73	40.10	37.94	40.30	38.14	40.50	38.32	40.70	38.49	40.86	38.66	41.10	38.90
Maximum Power Current (Imp/A)	16.86	13.41	16.89	13.44	16.92	13.48	16.95	13.52	16.98	13.54	17.01	13.58	17.04	13.60
Module Efficiency (%)	21.6		21.7		21.9		22.1		22.2		22.4		22.5	

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

Different Rearside Power Gain (Reference to 685W)

Rearside Power Gain	5%	10%	20%
Maximum Power at STC (Pmax)	719.3	753.5	822.0
Open-circuit Voltage (Voc/V)	47.1	47.1	47.1
Short-circuit Current (Isc/A)	18.9	19.8	21.6
Maximum Power Voltage (Vmp/V)	40.5	40.5	40.5
Maximum Power Current (Imp/A)	17.8	18.6	20.3
Module Efficiency (%)	23.2	24.3	26.5

Temperature Ratings (STC)

Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.25%/°C
Temperature coefficient of Pmax	-0.29%/°C

Mechanical Loading

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

