

TOPCON Bifacial Module With Dual Glass

GK-1-72HTBD | 144cells

570-600W | TOPCon | Half-cut

Module Efficiency up to 23.2%

15 Years Product Warranty
30 Years Linear Power Warranty



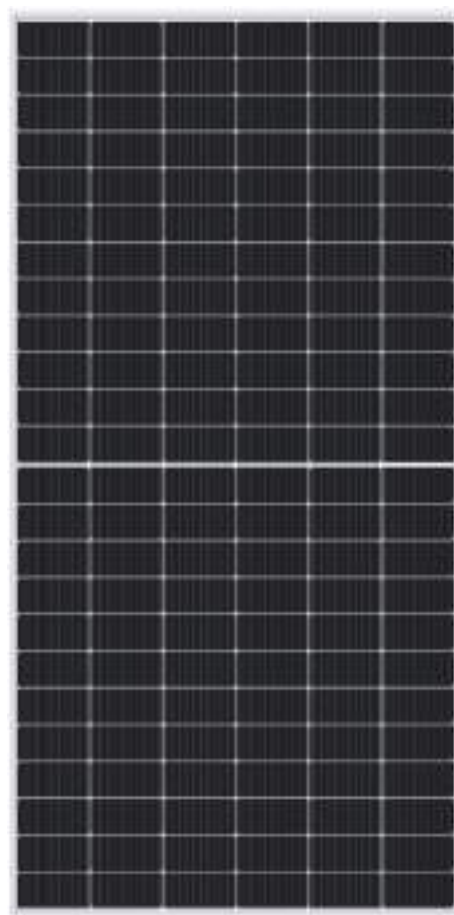
CLEAN
ENERGY
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IEC 61215(2021) / IEC 61730(2023)

ISO 9001: 2015: ISO Quality Management System

Anti-PID / Ammonia / Salt-mist / Dust and sand



High Efficiency

Module efficiency up to 23.2% based on N-Type wafer and TOPCon technology



Quality Guarantee

High module quality ensures long-term reliability



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

LINEAR PERFORMANCE WARRANTY

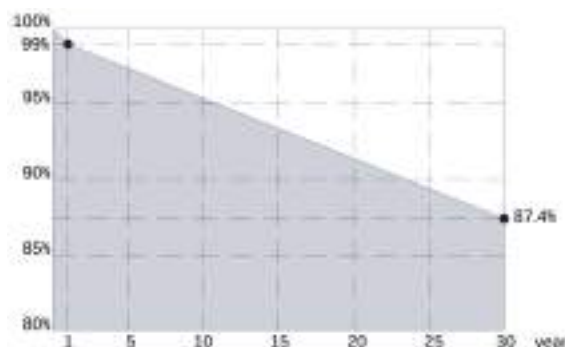
1% First Year Degradation

0.4% Annual Power Degradation

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.



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PEOPLE'S REPUBLIC OF CHINA

- Operating Temperature

-40°C ~ +85°C
- Power Tolerance

0~+5W
- Junction Box

IP68
- NOCT

45±2°C
- Maximum Series Fuse Rating

30A
- Bifacial Factor

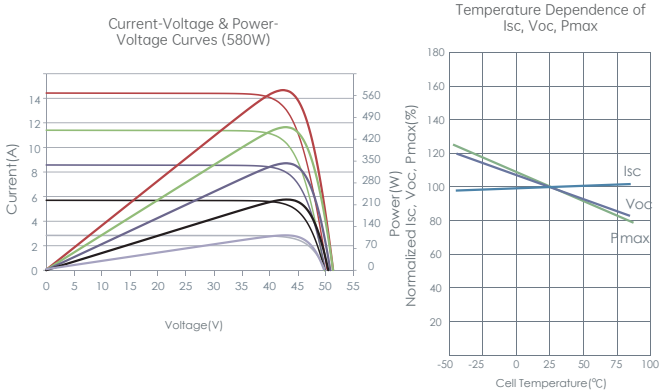
80±5%
- Maximum System Voltage

1500V(IEC)

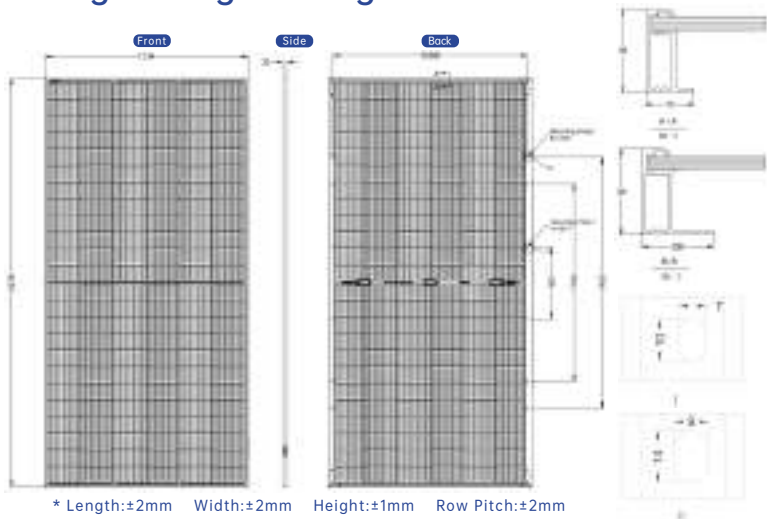
Mechanical Parameters

Cell Type	TOPCon
No. of cells	144 (2×72)
Output Cables	TüV 1×4mm ²
	(+)300mm,(-)200mm in length or customized length
Glass	Front: 2.0mm, AR-coating, semi-tempered
	Rear: 2.0mm, semi-tempered
Frame	Anodized aluminum alloy frame
Weight	31.0 kg (68.34 lbs)
Dimension	2278×1134×30mm
Packaging	36 pcs per pallet
	Package size(mm): 2310×1125×1259
	144 pcs per 20' HC, 720 pcs per 40' HC
Protection Class	Class II

Electrical Performance



Engineering Drawings



Electrical Characteristics (STC Test)

Module Type	GK-1-72HTBD-570M		GK-1-72HTBD-575M		GK-1-72HTBD-580M		GK-1-72HTBD-585M		GK-1-72HTBD-590M		GK-1-72HTBD-595M		GK-1-72HTBD-600M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	570	430	575	434	580	438	585	442	590	446	595	450	600	454
Open-circuit Voltage (Voc/V)	51.07	48.35	51.27	48.56	51.47	48.73	51.67	48.92	51.87	49.12	52.07	49.26	52.27	49.44
Short-circuit Current (Isc/A)	14.25	11.49	14.31	11.54	14.37	11.59	14.43	11.64	14.49	11.69	14.55	11.74	14.61	11.79
Maximum Power Voltage (Vmp/V)	42.29	40.01	42.44	40.14	42.59	40.30	42.74	40.45	42.89	40.58	43.04	40.72	43.19	40.86
Maximum Power Current (Imp/A)	13.48	10.75	13.55	10.81	13.62	10.87	13.69	10.93	13.76	10.99	13.83	11.06	13.90	11.12
Module Efficiency (%)	22.1		22.3		22.5		22.6		22.8		23.0		23.2	

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 585W)

Rearside Power Gain	5%	10%	20%
Maximum Power at STC (Pmax)	614.3	643.5	702.0
Open-circuit Voltage (Voc/V)	51.7	51.7	51.7
Short-circuit Current (Isc/A)	15.2	15.9	17.3
Maximum Power Voltage (Vmp/V)	42.7	42.7	42.7
Maximum Power Current (Imp/A)	14.4	15.1	16.4
Module Efficiency (%)	23.8	24.9	27.2

*The specifications contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Gokin Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

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