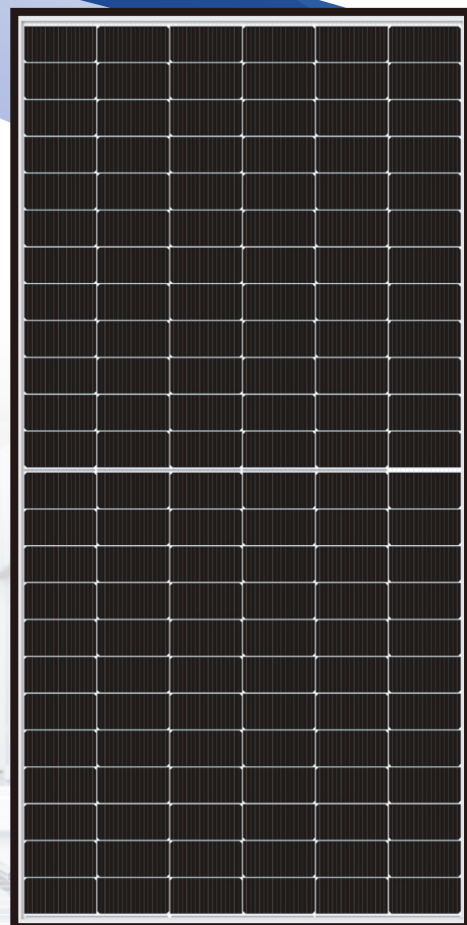


GK-1-60HTBD 470-500W



Supreme Quality



High Efficiency

Module efficiency up to 23.1% based on N-Type wafer and TOPCon technology



Excellent Energy Yield

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



Anti-degradation

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



Quality Guarantee

High module quality ensures long-term reliability

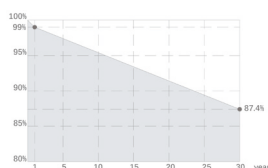
Module Characteristics

15-Year
Product Warranty

30-Year
Linear Power Warranty

1%
First Year Degradation

0.4%
Annual Power Degradation



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

30A
- Bifacial Factor

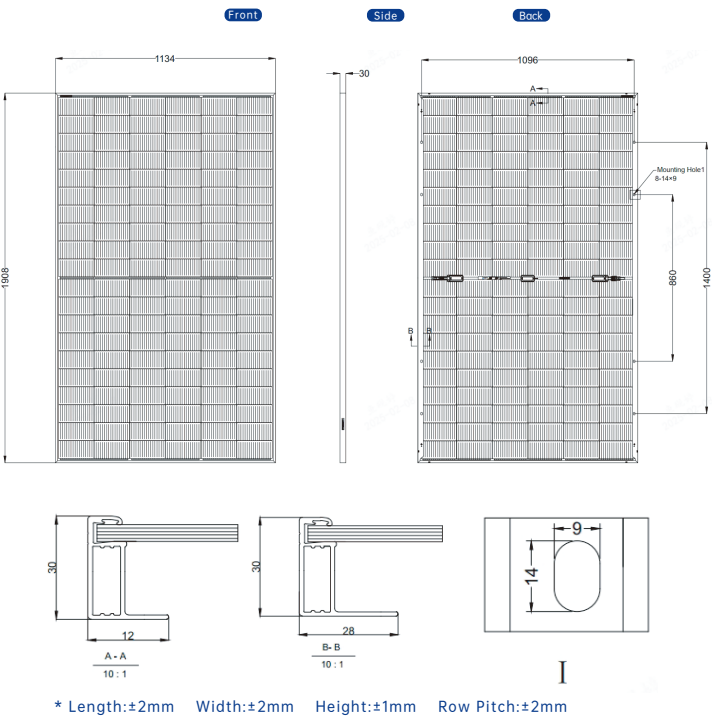
80±5%
- Maximum System Voltage

1500V(IEC)

Mechanical Parameters

Cell Type	TOPCon
No. of cells	120 (2×60)
Output Cables	TüV 1×4mm ²
	(+)1200mm,(-)1200mm in length or customized length
Glass	Front: 1.6mm, AR-coating, semi-tempered
	Rear: 1.6mm, semi-tempered
Frame	Anodized aluminum alloy frame
Weight	21.6 kg (47.62 lbs)
Dimension	1908×1134×30mm
Packaging	37 pcs per pallet
	222 pcs per 20' HC, 888 pcs per 40' HC
Protection Class	Class II
Fire Rating	IEC Class C

Engineering Drawings



Electrical Characteristics (STC Test)

Module Type	GK-1-60HTBD-470M		GK-1-60HTBD-475M		GK-1-60HTBD-480M		GK-1-60HTBD-485M		GK-1-60HTBD-490M		GK-1-60HTBD-495M		GK-1-60HTBD-500M	
	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)	470	355	475	359	480	363	485	366	490	370	495	374	500	378
Open-circuit Voltage (Voc/V)	42.38	40.13	42.54	40.30	42.71	40.45	42.86	40.61	43.02	40.76	43.18	40.89	43.34	41.02
Short-circuit Current (Isc/A)	14.15	11.41	14.23	11.48	14.31	11.54	14.39	11.60	14.48	11.68	14.56	11.75	14.64	11.82
Maximum Power Voltage (Vmp/V)	35.05	33.14	35.21	33.29	35.38	33.46	35.54	33.64	35.70	33.77	35.84	33.91	36.00	34.05
Maximum Power Current (Imp/A)	13.41	10.71	13.49	10.78	13.57	10.85	13.65	10.88	13.73	10.96	13.81	11.03	13.89	11.10
Module Efficiency (%)	21.7		22.0		22.2		22.4		22.6		22.9		23.1	

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 485W)

Rearside Power Gain	5%	10%	20%
Maximum Power at STC (Pmax)	509.3	533.5	582.0
Open-circuit Voltage (Voc/V)	42.9	42.9	42.9
Short-circuit Current (Isc/A)	15.1	15.8	17.3
Maximum Power Voltage (Vmp/V)	35.5	35.5	35.5
Maximum Power Current (Imp/A)	14.3	15.0	16.4
Module Efficiency (%)	23.5	24.7	26.9

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

*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.



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 May 2024. Gokin Solar Co., Ltd. reserves the right to change specifications.