

GK-1-72HPBD

550-555W

Supreme Quality



SMBB Technology

Better light trapping and current collection to improve module power output and reliability



PID Resistance

Excellent performance guarantee via optimized mass-production process and materials control



2400 Pa
5400 Pa

Enhanced Mechanical Load

Certified to withstand:
wind load (2400 Pascal)
snow load (5400 Pascal)



Quality Guarantee

High module quality ensures long-term reliability

Module Characteristics

12-Year

Product Warranty

30-Year

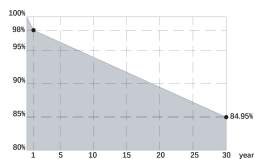
Linear Power Warranty

2%

First Year Degradation

0.45%

Annual Power Degradation



At least 84.95% of nominal power up to 30 years



IEC 61215(2021) / IEC 61730(2023)
ISO 9001: 2015: ISO Quality Management System
Made in China

555W

Maximum Power

21.5%

Highest Conversion Efficiency

2%

First Year Degradation

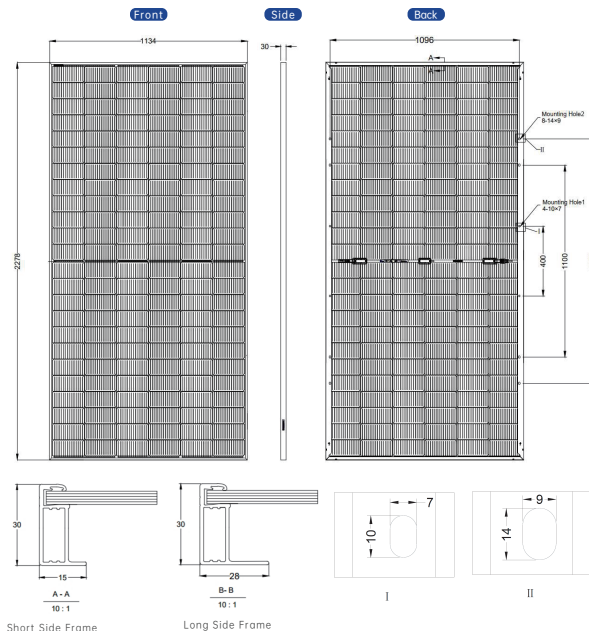
0.45%

2-30 Years Annual Power Attenuation

Mechanical Parameters

Cell Type	PERC
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	31.2 kg (68.78 lbs)
Dimension	2278×1134×30mm
Packaging	37 pcs per pallet 148 pcs per 20' HC, 740 pcs per 40' HC
Protection Class	Class II
Fire Rating	IEC Class C

Engineering Drawings



* Length:±2mm Width:±2mm Height:±1mm Row Pitch:±2mm

Electrical Characteristics (STC & NOCT & BNPI)

Module Type	GK-1-72HPBD-550M			GK-1-72HPBD-555M		
Testing Condition	STC	NOCT	BNPI	STC	NOCT	BNPI
Maximum Power (P _{max} /W)	550	415	600	555	419	605
Open-circuit Voltage (V _{oc} /V)	50.11	47.45	50.16	50.30	47.62	50.34
Short-circuit Current (I _{sc} /A)	14.01	11.30	15.32	14.07	11.35	15.38
Maximum Power Voltage (V _{mp} /V)	41.51	39.25	41.61	41.70	39.45	41.78
Maximum Power Current (I _{mp} /A)	13.25	10.57	14.42	13.31	10.62	14.48
Module Efficiency (%)	21.3			21.5		

Note: 1. STC: Irradiance 1000W/M², Cell Temperature 25°C, AM=1.5
φP_{max}=70±5%, φI_{sc}=70±5%, φV_{oc}=100±5%2. NOCT: Irradiance 800W/M², Ambient Temperature 20°C, AM=1.5, Wind Speed 1M/S3. BNPI: Irradiance of front 1000W/M², rear 135W/M²

Different Rearside Power Gain (Reference to 550W)

Rearside Power Gain	5%	10%	20%
Maximum Power at STC (P _{max})	577.5	605.0	660.0
Open-circuit Voltage (V _{oc} /V)	50.1	50.1	50.1
Short-circuit Current (I _{sc} /A)	15.0	15.4	16.8
Maximum Power Voltage (V _{mp} /V)	41.5	41.5	41.5
Maximum Power Current (I _{mp} /A)	13.9	14.6	15.9
Module Efficiency (%)	22.4	23.4	26.7

*The above data is for reference only. When signing a contract, the latest version of the product specification shall prevail.

Working Parameters

Operating Temperature	-40°C ~ +70°C
Power Sorting Tolerance	0 ~ +5W
Maximum System Voltage	1500V(IEC)
NMOT	45±2°C
Maximum Series Fuse Rating	30A
P _{max} and V _{oc} and I _{sc} Tolerance	±3%
Junction Box	IP68

Temperature Ratings (STC)

Temperature coefficient of I _{sc}	+ 0.048%/°C
Temperature coefficient of V _{oc}	- 0.28%/°C
Temperature coefficient of P _{max}	- 0.35%/°C

Mechanical Loading

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

Gokin



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.

Cable type

Wuxi Xinhongye Wire&Cable Co., Ltd.
Ningbo Kibor Wire&Cable Co., Ltd.
Ningbo Minghe New Energy Technology Co., Ltd.
Xinya Electronic Co., Ltd.
QC Solar(Suzhou) Corporation
RUIXU INDUSTRY CO., Ltd.
SUZHOU YONGHAO CABLE CO., LTD.
Jiangxi Jinko PV Material Co., Ltd.
Suzhou Xtong Photovoltaic Technologies Co., Ltd.

Connector type

PV-MH5,Ningbo Minghe New Energy Technology Co., Ltd.
QC4.10-cds, QC Solar (Suzhou)Corporation
QC4.10-ab, QC Solar (Suzhou)Corporation
QC4, QC Solar (Suzhou)Corporation
T4-PPE-1;T4-PC-1, Changshu Tlian Co.,Ltd.
PV4-Syx&PV4-Slyx, Tyco Electronics Austria GmbH.
PV-KST4-EVO2/xy&PV-KBT4-EVO2/xy, Stäubli Electrical connectors AG
PV-KST4-EVO2A/xy&PV-KBT4-EVO2A/xy, Stäubli Electrical connectors AG
PV-JK03M/xy, Jiangxi Jinko PV Material Co., Ltd.
PV-JK03M1/xyz, Jiangxi Jinko PV Material Co., Ltd.
PV-JK03M2/xy, Jiangxi Jinko PV Material Co., Ltd.
PV-KST4-EVO2/xy_UR&PV-KBT4-EVO2/xy_UR, Stäubli Electrical connectors AG
PV-XT101.1;PV-XT101.2;XT2, Suzhou Xtong Photovoltaic Technologies Co.,Ltd
PV-GK01, Gokin Solar Co., Ltd.