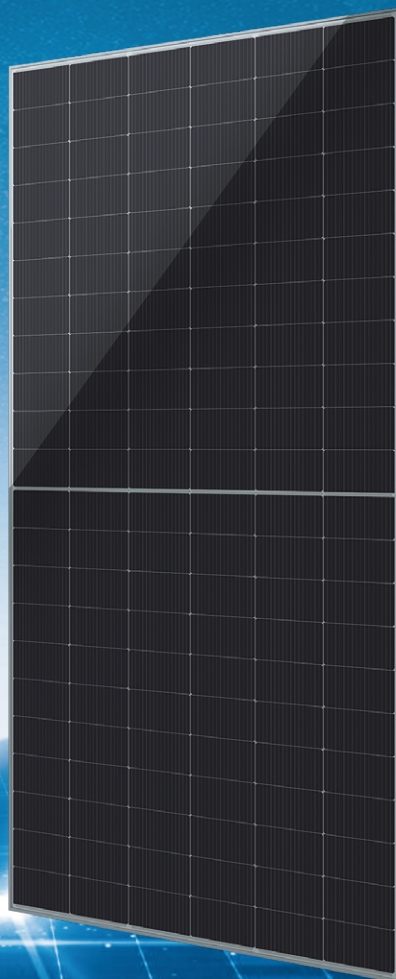


Gokin

FLAMINGO G12/132D

670-700W



Supreme Quality



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



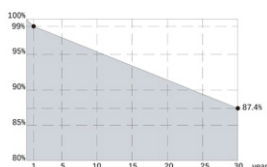
Excellent Energy Yield

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



At least 87.4% of nominal power up to 30 years

Module Characteristics

12^{Year}

12 Years Product Warranty

30^{Year}

30 Years Linear Power Warranty

1%

1% First Year Degradation

0.4%

0.4% Annual Power Degradation

Comprehensive Certification

IEC 61215(2021) / IEC 61730(2023)

ISO 9001: 2015: ISO Quality Management System

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



700W

Maximum Power

22.5%

Highest Conversion Efficiency

1%

First Year Degradation

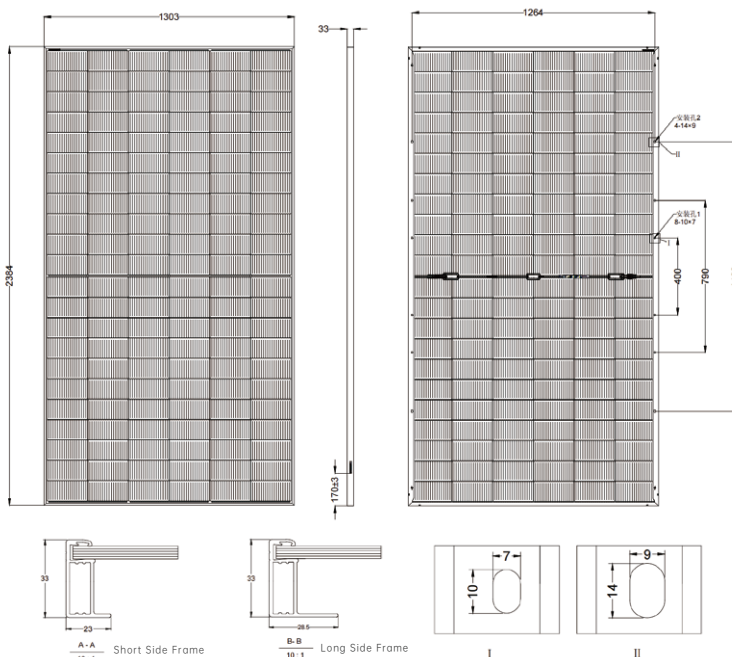
0.4%

2-30 Years Annual Power Attenuation

Mechanical Parameters

Cell Type	N-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 132 pcs per 20' HC, 264 pcs per 40' HC
Protection Class	Class II

Engineering Drawings



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

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	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	670	506	675	510	680	514	685	518	690	521	695	525	700	529
Open-circuit Voltage (V _{oc} /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 (I _{sc} /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 (V _{mp} /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 (I _{mp} /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	

Note: 1. STC: Irradiance 1000W/M², Cell Temperature 25°C, AM=1.52. 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 (P _{max})	719.3	753.5	822.0
Open-circuit Voltage (V _{oc} /V)	47.1	47.1	47.1
Short-circuit Current (I _{sc} /A)	18.9	19.8	21.6
Maximum Power Voltage (V _{mp} /V)	40.5	40.5	40.5
Maximum Power Current (I _{mp} /A)	17.8	18.6	20.3
Module Efficiency (%)	23.2	24.3	26.5

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

Temperature Ratings (STC)

Temperature coefficient of I _{sc}	+ 0.045%/°C
Temperature coefficient of V _{oc}	- 0.25%/°C
Temperature coefficient of P _{max}	- 0.29%/°C

Working Parameters

Operating Temperature	-40°C~ +85°C
Power Tolerance	0~ +5W
Maximum System Voltage	1500V(IEC)
NMOT	45±2°C
Maximum Series Fuse Rating	35A
Bifacial Factor	80±5%
Junction Box	IP68

Mechanical Loading

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

Gokin



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Product data is updated as of May 2024. Gokin Solar Co., Ltd. reserves the right to change specifications.