

FLAMINGO M10/144D 595-600W



Supreme Quality



High Efficiency

Module efficiency up to 23.2% 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

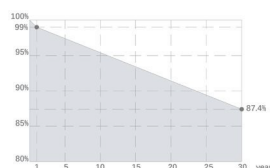
Module Characteristics

12-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

Made in China

600W

Maximum Power

23.2%

Highest Conversion Efficiency

1%

First Year Degradation

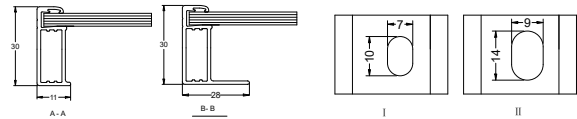
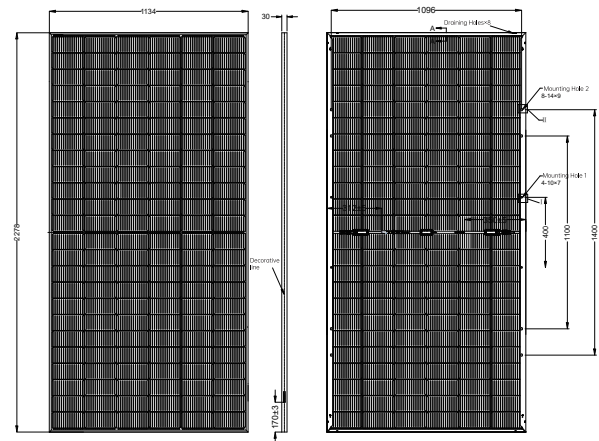
0.4%

2-30 Years Annual Power Attenuation

Mechanical Parameters

Cell Type	N-Type TOPCon
No. of cells	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
Connector	Staubli Electrical Connectors AG - MC4 EVO2 Series PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy
Weight	31.0kg (68.34lbs)
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 Test)

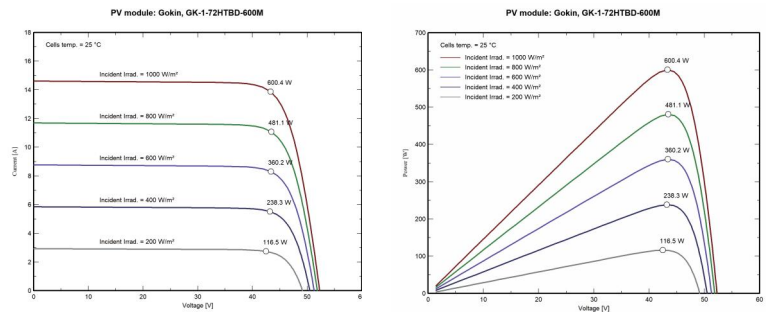
φVoc=100%±5%, φIsc=80%±5%, φPmax=80%±5%

Module Type	GK-1-72HTBD-595M			GK-1-72HTBD-600M		
Testing Condition	STC	BNPI	BSI	STC	BNPI	BSI
Maximum Power (Pmax/W)	595	655	/	600	660	/
Open-circuit Voltage (Voc/V)	52.07	52.17	/	52.27	52.37	/
Short-circuit Current (Isc/A)	14.55	16.00	17.87	14.61	16.06	17.93
Maximum Power Voltage (Vmp/V)	43.04	43.07	/	43.19	43.20	/
Maximum Power Current (Imp/A)	13.83	15.21	/	13.90	15.28	/
Module Efficiency (%)	23.0			23.2		

1、STC: Irradiance 1000W/M², Cell Temperature 25°C, AM=1.5; 2、BNPI: Irradiance of front 1000W/M², rear 135W/M²; 3、BSI: Irradiance of front 1000W/M², rear 300W/M²

Working Parameters

T ₉₈ max	70°C
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
Power Binning Tolerance	-5~+10W
P _{max} and V _{oc} and I _{sc} Tolerance	±3%
Maximum System Voltage	1500V(IEC)
Mechanical Loading	5400Pa Front Side Max Static Test Load 2400Pa Rear Side Max Static Test Load
Hail Test	25mm hailstone at 23m/s
Junction Box	IP68



Temperature Ratings (STC)

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

Gokin

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Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

Production Base: No.1 Hejin Avenue, Automotive Industry Base, Huadu District Guangzhou City, Guangdong Province

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GK-1-72HTBD-SF-DG-CEC