

## FLAMINGO M10/144D 575-605W



### Supreme Quality



#### High Efficiency

Module efficiency up to 23.4% 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

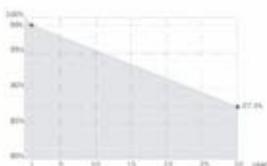
### Module Characteristics

**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

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

Made in China

**605W**

Maximum Power

**23.4%**

Highest Conversion Efficiency

**1%**

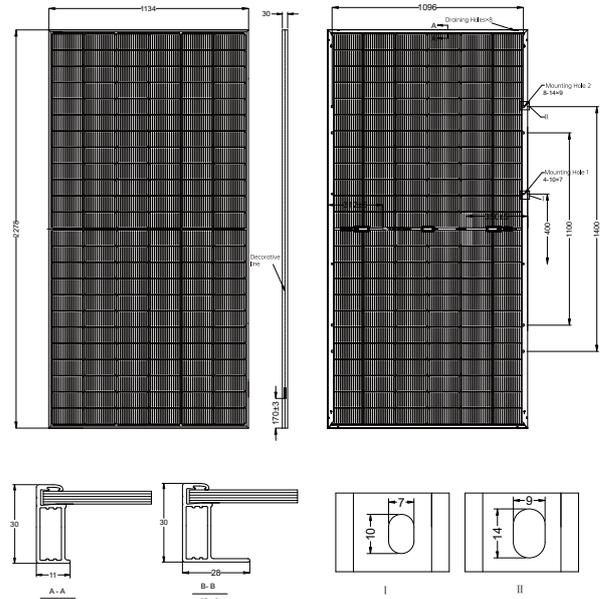
First Year Degradation

**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 <sup>2</sup>
	(+)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	31.0kg (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)**

Module Type	GK-1-72HTBD-575M		GK-1-72HTBD-580M		GK-1-72HTBD-585M		GK-1-72HTBD-590M		GK-1-72HTBD-595M		GK-1-72HTBD-600M		GK-1-72HTBD-605M	
	STC	NOCT												
Testing Condition	STC	NOCT												
Maximum Power (Pmax/W)	575	434	580	438	585	442	590	446	595	450	600	454	605	458
Open-circuit Voltage (Voc/V)	51.27	48.56	51.47	48.73	51.67	48.92	51.87	49.12	52.07	49.26	52.27	49.44	52.47	49.62
Short-circuit Current (Isc/A)	14.31	11.54	14.37	11.59	14.43	11.64	14.49	11.69	14.55	11.74	14.61	11.79	14.67	11.84
Maximum Power Voltage (Vmp/V)	42.44	40.14	42.59	40.30	42.74	40.45	42.89	40.58	43.04	40.72	43.19	40.86	43.36	41.00
Maximum Power Current (Imp/A)	13.55	10.81	13.62	10.87	13.69	10.93	13.76	10.99	13.83	11.06	13.90	11.12	13.96	11.17
Module Efficiency (%)	<b>22.3</b>		<b>22.5</b>		<b>22.7</b>		<b>22.8</b>		<b>23.0</b>		<b>23.2</b>		<b>23.4</b>	

Note: 1. STC: Irradiance 1000W/M<sup>2</sup>, Cell Temperature 25°C, AM=1.5 2. NOCT: Irradiance 800W/M<sup>2</sup>, 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 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~ +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

**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

**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-F2 EN**