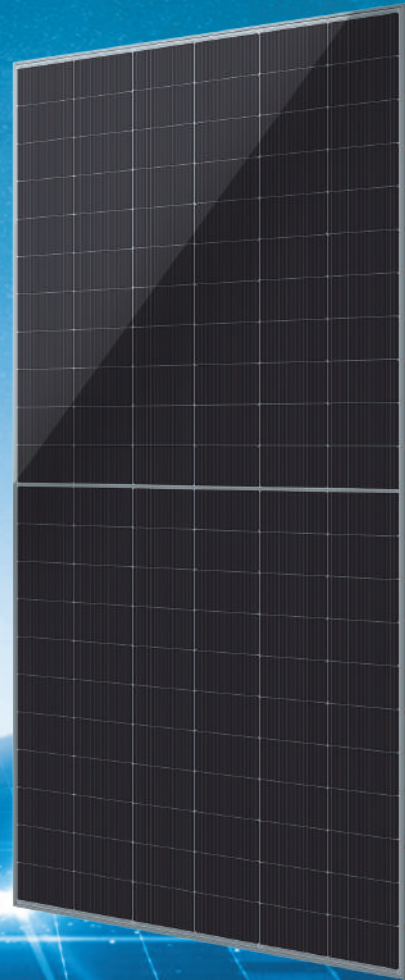


# Gokin

## FLAMINGO M10/144S

# 570-600W



### Supreme Quality



#### High Efficiency

Module efficiency up to 23.2% 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



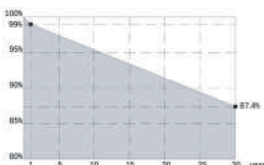
#### Excellent Energy Yield

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<sup>Year</sup>

12 Years Product Warranty

30<sup>Year</sup>

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



**600W**

Maximum Power

**23.2%**

Highest Conversion Efficiency

**1%**

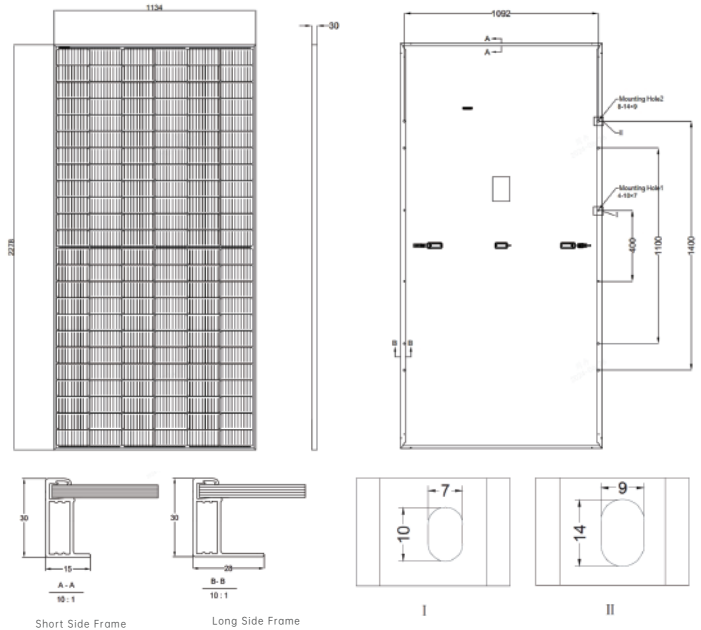
First Year Degradation

**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 <sup>2</sup>
	(+)300mm,(-)200mm in length or customized length
Glass	Front: 3.2mm, AR-coating tempered glass
Frame	Anodized aluminum alloy frame
Weight	26.8kg (59.08 lbs)
Dimension	2278×1134×30mm
Packaging	36 pcs per pallet
	Package size(mm): 2310×1130×1259
	144 pcs per 20' HC, 720 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-1-72HT-570M		GK-1-72HT-575M		GK-1-72HT-580M		GK-1-72HT-585M		GK-1-72HT-590M		GK-1-72HT-595M		GK-1-72HT-600M	
	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)	570	431	575	435	580	438	585	442	590	446	595	450	600	454
Open-circuit Voltage (Voc/V)	51.07	48.40	51.27	48.54	51.47	48.77	51.67	48.96	51.87	49.13	52.07	49.28	52.27	49.43
Short-circuit Current (Isc/A)	14.25	11.49	14.31	11.54	14.37	11.59	14.43	11.64	14.49	11.69	14.55	11.74	14.61	11.79
Maximum Power Voltage (Vmp/V)	42.29	40.00	42.44	40.13	42.59	40.30	42.74	40.41	42.89	40.59	43.05	40.79	43.23	40.95
Maximum Power Current (Imp/A)	13.48	10.77	13.55	10.84	13.62	10.87	13.69	10.94	13.76	10.99	13.82	11.04	13.88	11.09
Module Efficiency (%)	<b>22.1</b>		<b>22.3</b>		<b>22.5</b>		<b>22.6</b>		<b>22.8</b>		<b>23.0</b>		<b>23.2</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**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

**Working Parameters**

Operating Temperature	-40°C~ +85°C	Maximum Series Fuse Rating	30A
Power Tolerance	0~ +5W	Junction Box	IP68
Maximum System Voltage	DC1500V (IEC)		
NOCT	45±2°C		

**Gokin**

Gokin Solar Co., Ltd.

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