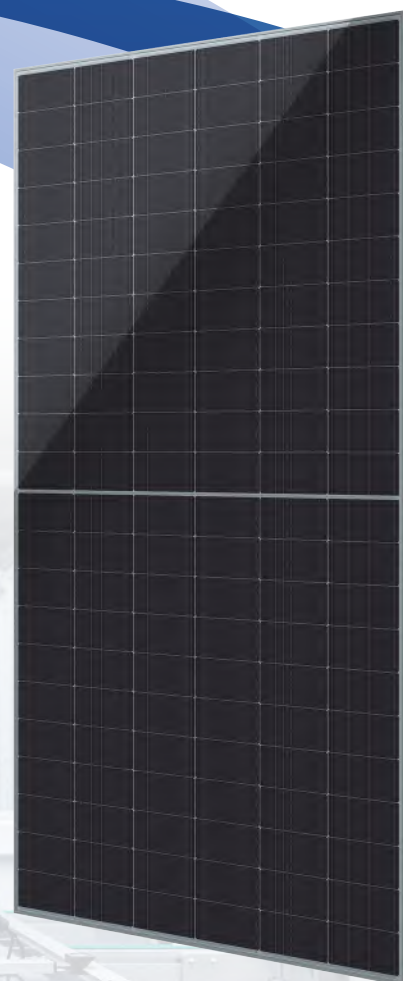


FLAMINGO M10/156D 625-630W



Supreme Quality



High Efficiency

Module efficiency up to 22.5% 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 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

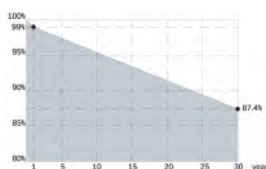
Linear Power Warranty

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

630W

Maximum Power

22.5%

Highest Conversion Efficiency

1%

First Year Degradation

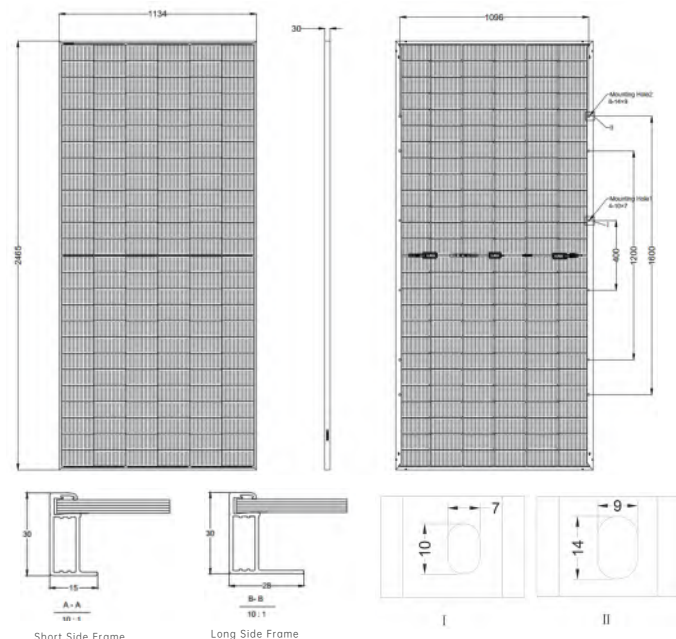
0.4%

2-30 Years Annual Power Attenuation

Mechanical Parameters

Cell Type	N-Type TOPCon
No. of cells	156 (2×78)
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	33.5 kg (73.85 lbs)
Dimension	2465×1134×30mm
Packaging	36 pcs per pallet 144 pcs per 20' HC, 576 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-1-78HTBD-625M			GK-1-78HTBD-630M		
Testing Condition	STC	NOCT	BNPI	STC	NOCT	BNPI
Maximum Power (Pmax/W)	625	473	690	630	477	695
Open-circuit Voltage (Voc/V)	56.78	53.96	57.07	56.95	54.05	57.20
Short-circuit Current (Isc/A)	13.83	11.14	15.20	13.89	11.18	15.26
Maximum Power Voltage (Vmp/V)	47.45	44.99	47.65	47.60	45.14	47.80
Maximum Power Current (Imp/A)	13.19	10.52	14.48	13.25	10.57	14.54
Module Efficiency (%)	22.4			22.5		

Note: 1、STC: Irradiance 1000W/M², Cell Temperature 25°C, AM=1.5 2、NOCT: Irradiance 800W/M², Ambient Temperature 20°C, AM=1.5, Wind Speed 1M/S 3、BNPI: Irradiance of front 1000W/M², rear 135W/M²
φPmax=80±5%, φIsc=80±5%, φVoc=100±5%

Different Rearside Power Gain (Reference to 625W)

Rearside Power Gain	5%	10%	20%
Maximum Power at STC (Pmax)	656.3	687.5	750.0
Open-circuit Voltage (Voc/V)	56.8	56.8	56.8
Short-circuit Current (Isc/A)	14.5	15.2	16.6
Maximum Power Voltage (Vmp/V)	47.5	47.5	47.5
Maximum Power Current (Imp/A)	13.8	14.9	15.8
Module Efficiency (%)	23.5	24.6	26.8

*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 Sorting Tolerance	0~ +5W
Maximum System Voltage	1500V(IEC)
NMOT	45±2°C
Maximum Series Fuse Rating	30A
Pmax and Voc and Isc Tolerance	±3%
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



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.