TIGER Neo III Safety King

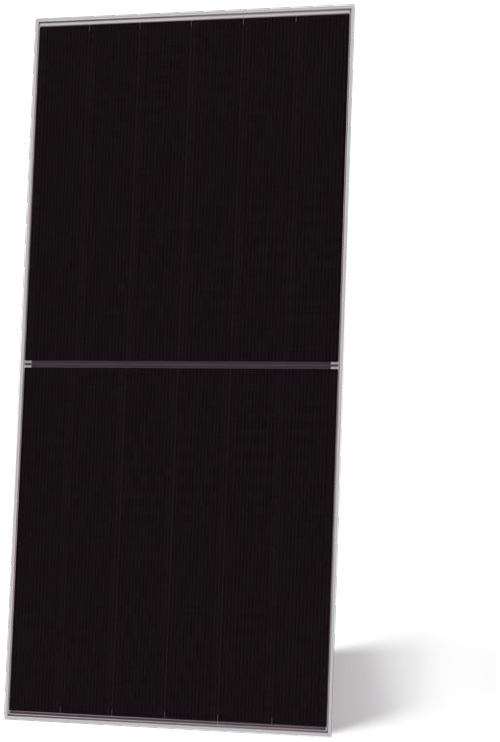
JinKO Solar

66QL6-BDX

620-670 Watt

85±5% Bifaciality

BIFACIAL MODULE

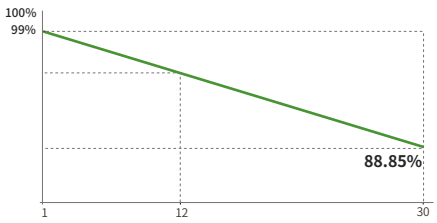


Higher Power on Front Side

Leading power class based on the enhanced N-type TOPCon platform, through cutting-edge technology and an optimized layout that captures more sunlight.

Better Generation on Rear Side

Enabling industry-leading bifaciality in TOPCon cells through an improved structure that enhances light absorption and trapping.



12Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.35**% Annual Degradation Over 30 Years

*Applies to the power measured under Standard Test Condition(STC)

Fire Rating A

Obtained fire rating class A test report.

Proven Low Light Performance

Enhanced cell structure ensures superior module performance under low-light conditions.

- IEC61215:2021 / IEC61730:2023
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

High Hail Resistance

Tested to withstand hail strikes of up to 45mm.

Mechanical Load Enhanced

Certified to withstand:
7000 Pa front side max static test load
5000 Pa rear side max static test load

JKM620-670N-66QL6-BDX-SafetyKing-F3C1-OC

JKMxxxN-66QL6-BDX (xxx=620-670, in steps of 5)

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of Cells	264 (66×4)
Dimensions	2382×1134×30 mm
Weight	40.5 kg
Front Glass	2.5 mm, Anti-reflection Coating
Back Glass	2.5 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class A
Connector Type	PV-JK03M/xy,PV-JK03M2/xy,PV-JC001/xy, PV-JC006/xyz (JinKO) ; PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy (Staubli)
Output Cables (Including Connector)	⩾ 4.0 mm^2 (+): 500 mm , (-): 400 mm or Customized Length

Packaging Configuration

Pallet Dimensions	2412×1140×1254 mm
Packing Detail (Two pallets = One stack)	36 pcs/pallet, 72 pcs/stack, 576 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	620	625	630	635	640	645	650	655	660	665	670
Maximum Power Voltage - Vmp [V]	41.76	41.90	42.03	42.17	42.31	42.44	42.57	42.70	42.78	42.85	42.92
Maximum Power Current - Imp [A]	14.85	14.92	14.99	15.06	15.13	15.20	15.27	15.34	15.43	15.52	15.61
Open-circuit Voltage - Voc [V]	49.15	49.34	49.52	49.71	49.90	50.08	50.26	50.44	50.50	50.55	50.60
Short-circuit Current - Isc [A]	15.62	15.68	15.74	15.80	15.86	15.92	15.98	16.04	16.14	16.24	16.34
Module Efficiency STC [%]	22.95	23.14	23.32	23.51	23.69	23.88	24.06	24.25	24.43	24.62	24.80
Measurement Tolerance	STC: Pmax± 3%, Voc±5%, Isc±5%										
Power Sorting	0 ~ +3 %										
Temperature Coefficient of Pmax	-0.26 %/°C										
Temperature Coefficient of Voc	-0.24 %/°C										
Temperature Coefficient of Isc	0.046 %/°C										

STC: Irradiance 1000W/m^2, Cell Temperature 25°C, AM=1.5

Specifications (BNPI &BSI)*

Maximum Power - Pmax [Wp]	691	696	702	707	713	718	724	729	735	746	741
Maximum Power Voltage - Vmp [V]	41.50	41.67	41.84	42.01	42.18	42.35	42.52	42.69	42.70	42.80	42.75
Maximum Power Current - Imp [A]	16.64	16.71	16.78	16.84	16.91	16.97	17.04	17.10	17.21	17.42	17.32
Open-circuit Voltage - Voc [V]	49.30	49.48	49.66	49.84	50.02	50.20	50.38	50.56	50.70	50.80	50.75
Short-circuit Current - Isc [A]	17.40	17.47	17.53	17.60	17.67	17.73	17.80	17.87	17.98	18.20	18.09
Short-circuit Current -Isc [A] at BSI	19.58	19.66	19.72	19.80	19.88	19.94	20.02	20.11	20.23	20.35	20.47
Bifacial Factor	85 ± 5%										

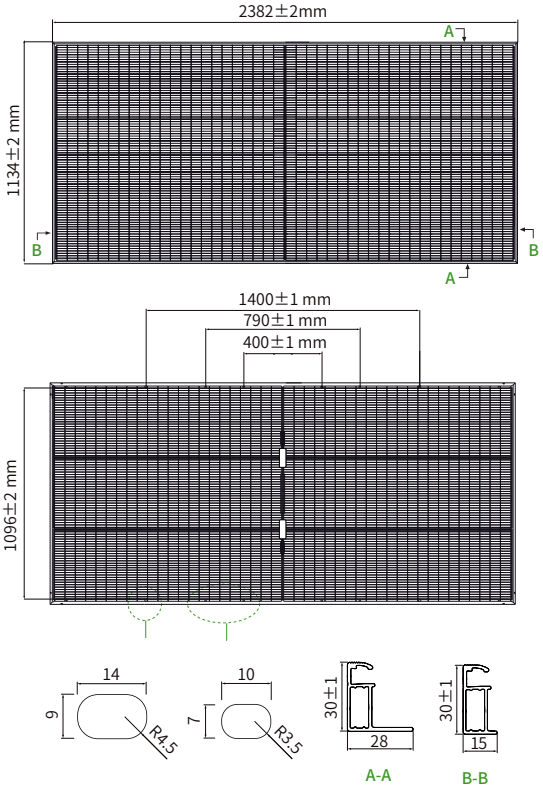
*BNPI: Irradiance: Front 1000W/m^2, Rear 135W/m^2, Cell Temperature 25°C, AM=1.5.
BSI: Irradiance: Front 1000W/m^2, Rear 300W/m^2
Measurement tolerance: Pmax ±3%, Voc ±5%, Isc ±5%

Application Conditions

Level T_{98} ⩽ 70 °C	-40 °C ~ +70 °C*
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	35 A
Bifaciality Coefficents	φVoc: 98±5 %, φIsc: 85±5 %, φPmax: 85±5 %

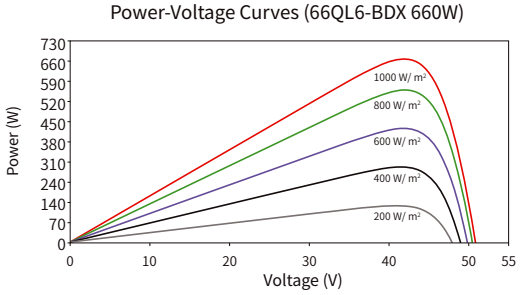
*Short-term up to 85°C; higher operation requires IEC TS 63126 testing

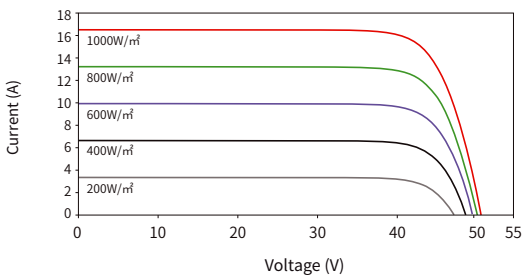
Engineering Drawings



Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance





Solar JinKO Made in China

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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.

JKM620-670N-66QL6-BDX-SafetyKing-F3C1-OC

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