TIGER Neo III

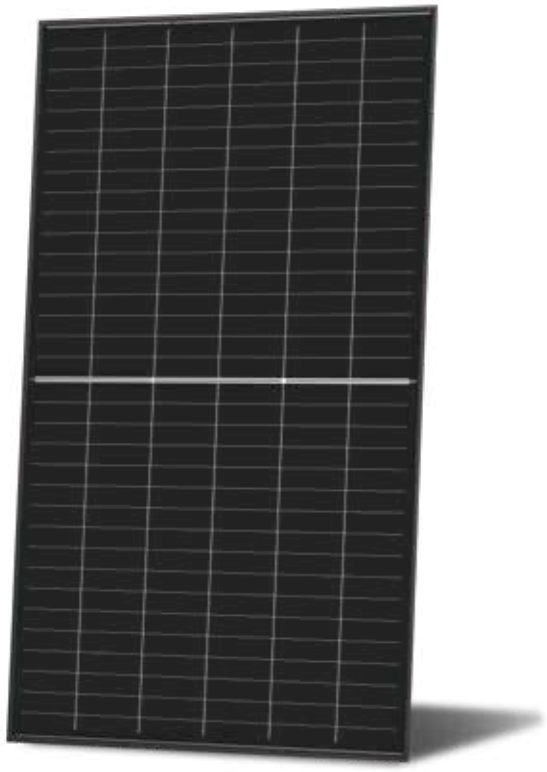
JinKO Solar

51 QL6-BDV

495-520 Watt

85±5% Bifaciality

BIFACIAL MODULE

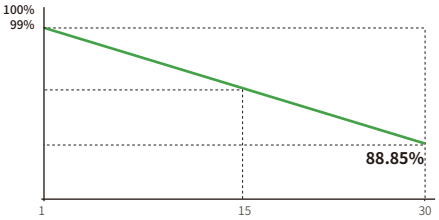


Higher Power on Front Side

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.



15Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.35**% Annual Degradation Over 30 Years

Optimized Heat Resistance

Optimized temperature coefficient via advanced graphical patterning, busbar and multi-cells technology.

Proven Low Light Performance

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

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

Industry Leading Warranty

Advanced metallization and iterated module encapsulation deliver superior resistance to PID, LID / LeTID, and UV degradation.

Mechanical Load Enhanced

Certified to withstand:
5400 Pa front side max static test load
2400 Pa rear side max static test load

CLEAN ENERGY COUNCIL MEMBER

POSITIVE QUALITY™ Continuous Quality Assurance

JKM495-520N-51QL6-BDV-D3-EU

51QL6-BDV 495-520 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	204 (51×4)
Dimensions	1906×1134×30 mm
Weight	27.0 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/JK03M2/Others*
Output Cables (Including Connector)	4.0 mm^2 (+): 600 mm , (-): 400 mm or Customized Length

*MC4-EVO2 available upon request and subject to availability

Packaging Configuration

Pallet Dimensions	1981×1140×1249 mm
Packing Detail (Two pallets = One stack)	37 pcs/pallets, 74 pcs/stack, 888 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	495	500	505	510	515	520
Maximum Power Voltage - Vmp [V]	32.72	32.90	33.08	33.25	33.42	33.60
Maximum Power Current - Imp [A]	15.13	15.20	15.27	15.34	15.41	15.48
Open-circuit Voltage - Voc [V]	37.78	38.04	38.30	38.56	38.82	39.08
Short-circuit Current - Isc [A]	15.91	15.96	16.01	16.06	16.11	16.16
Module Efficiency STC [%]	22.90	23.13	23.36	23.60	23.83	24.06
Bifacial Factor	85 ± 5%					
Power Tolerance	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)

Maximum Power - Pmax [Wp]	552	557	563	569	574	580
Maximum Power Voltage - Vmp [V]	32.71	32.88	33.06	33.21	33.39	33.42
Maximum Power Current - Imp [A]	16.88	16.94	17.03	17.13	17.19	17.35
Open-circuit Voltage - Voc [V]	37.56	37.62	37.72	37.75	37.81	37.84
Short-circuit Current - Isc [A]	17.46	17.49	17.53	17.55	17.58	17.63

BNPI: Irradiance: front 1000W/m^2, rear 135W/m^2, Cell Temperature 25°C, AM=1.5

Application Conditions

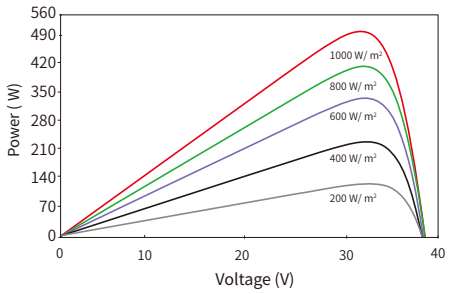
Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35 A
Bifaciality Coefficients	φVoc: 98±5 %, φIsc: 85±5 %, φPmax: 85±5 %

Engineering Drawings

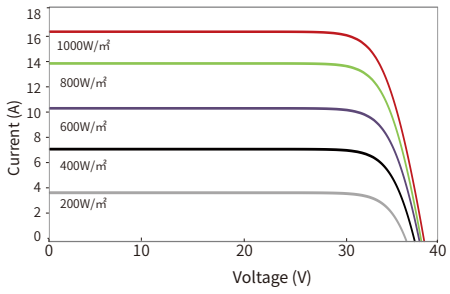
*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

Power-Voltage Curves (51QL6-BDV 505W)



Current-Voltage Curves (51QL6-BDV 505W)



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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.