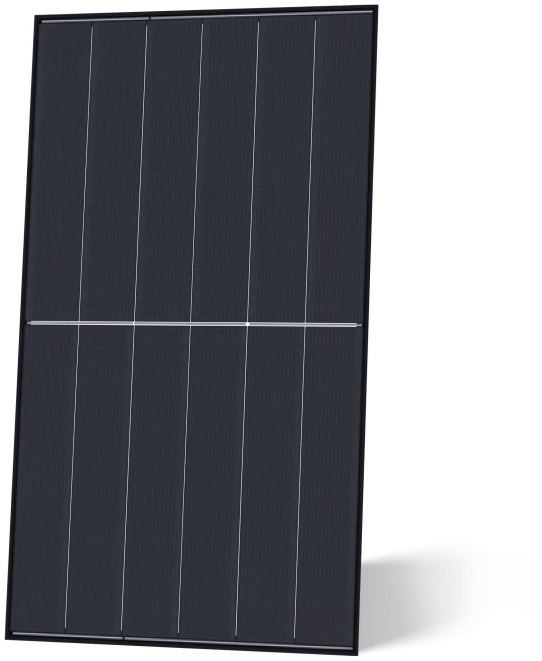
TIGER Neo III

48QL6-BDV

460-485 Watt

85±5% Bifaciality

BIFACIAL MODULE



Higher Power on Front Side

Leading power class based on the enhanced N-type TOPCon platform, achieved 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.

Optimized Heat Resistance

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

Proven Low Light Performance

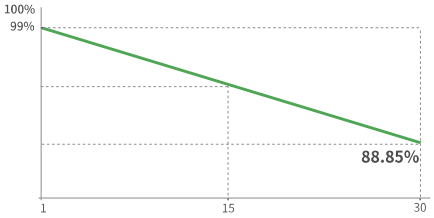
Enhanced cell structure ensures superior module performance under low-light conditions.

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:
6000 Pa front side max static test load
4000 Pa rear side max static test load



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

- 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

CLEAN ENERGY COUNCIL MEMBER

POSITIVE QUALITY™ Continuous Quality Assurance

JKM460-485N-48QL6-BDV-F1-EU

48QL6-BDV 460-485 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	192（48×4）
Dimensions	1762×1134×30 mm
Weight	24.4 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	1792×1140×1249 mm
Packing Detail (Two pallets = One stack)	37 pcs/pallets, 74 pcs/stack, 962 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	460	465	470	475	480	485
Maximum Power Voltage - Vmp [V]	30.71	30.88	31.05	31.21	31.38	31.54
Maximum Power Current - Imp [A]	14.98	15.06	15.14	15.22	15.30	15.38
Open-circuit Voltage - Voc [V]	35.71	35.96	36.21	36.46	36.71	36.96
Short-circuit Current - Isc [A]	15.67	15.72	15.77	15.82	15.87	15.92
Module Efficiency STC [%]	23.02	23.27	23.52	23.77	24.02	24.27
Bifacial Factor	85 ± 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)

Maximum Power - Pmax [Wp]	513	518	524	530	535	541
Maximum Power Voltage - Vmp [V]	30.71	30.88	31.05	31.21	31.38	31.54
Maximum Power Current - Imp [A]	16.70	16.79	16.88	16.97	17.06	17. 14
Open-circuit Voltage - Voc [V]	35.71	35.96	36.21	36.46	36.71	39.96
Short-circuit Current - Isc [A]	17.47	17.52	17.58	17.64	17.69	17.75

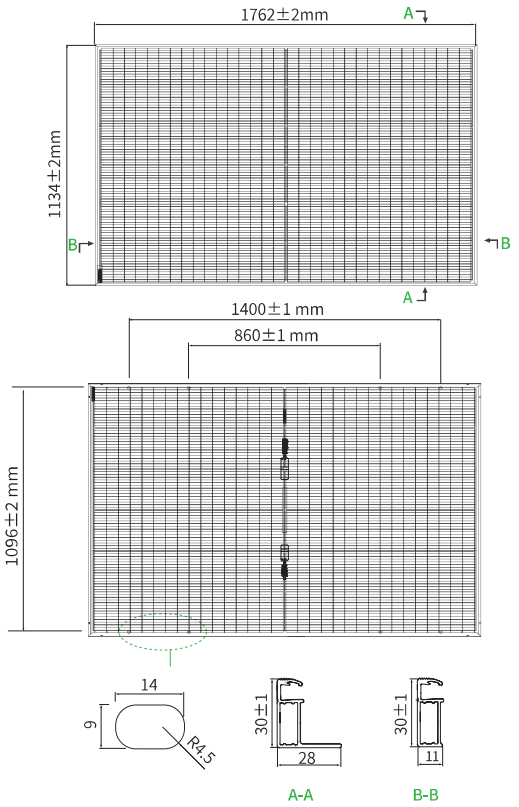
BNPI: Irradiance: front 1000W/m^2, rear 135W/m^2, Cell Temperature 25°C, AM=1.5

Application Conditions

Level T_{98} ⩽ 70 °C	- 40 °C to + 70 °C*
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Bifaciality Coefficients	φVoc: 98±5 %, φIsc: 85±5 %, φPmax: 85±5 %

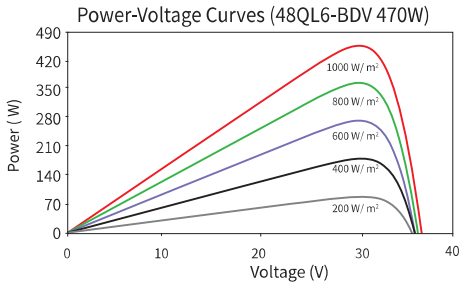
*Short-term up to 85°C; higher operation requires IEC TS 63126 testing

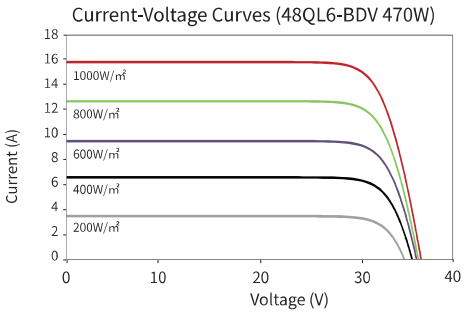
Engineering Drawings



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

Electrical Performance





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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.

JKM460-485N-48QL6-BDV-F1-EU

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