

66QL6-BDV

635-670 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.



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.



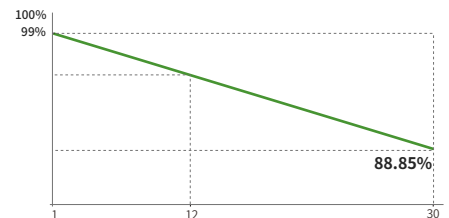
Industry Leading Warranty

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



Mechanical Load Enhanced

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



12 Year
Product Warranty

30 Year
Linear Power
Warranty

1%
First-year
Degradation

0.35%
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



POSITIVE QUALITY™
Continuous Quality Assurance

JKM635-670N-66QL6-BDV-F4C1-MEA

66QL6-BDV 635-670 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of Cells	264 (66×4)
Dimensions	2382×1134×30 mm
Weight	32.5 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 (+): 500 mm , (-): 400 mm or Customized Length

*MC4-EVO2 available upon request and subject to availability

Packaging Configuration

Pallet Dimensions	2396×1110×1251 mm
Packing Detail (Two pallets = One stack)	36 pcs/pallet, 72 pcs/stack, 720 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - P _{max} [Wp]*	635	640	645	650	655	660	665	670
Maximum Power Voltage - V _{mp} [V]	42.17	42.31	42.44	42.57	42.70	42.78	42.85	42.92
Maximum Power Current - I _{mp} [A]	15.06	15.13	15.20	15.27	15.34	15.43	15.52	15.61
Open-circuit Voltage - V _{oc} [V]	49.71	49.90	50.08	50.26	50.44	50.50	50.55	50.60
Short-circuit Current - I _{sc} [A]	15.80	15.86	15.92	15.98	16.04	16.14	16.24	16.34
Module Efficiency STC [%]	23.51	23.69	23.88	24.06	24.25	24.43	24.62	24.80
Bifacial Factor	85 ± 5%							
Power Sorting	0 ~ +3 %							
Temperature Coefficient of P _{max}	-0.26 %/°C							
Temperature Coefficient of V _{oc}	-0.24 %/°C							
Temperature Coefficient of I _{sc}	0.046 %/°C							

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5. *Power measurement tolerance: ±3%

Specifications (BNPI)

Maximum Power - P _{max} [Wp]*	707	713	718	724	729	735	741	746
Maximum Power Voltage - V _{mp} [V]	42.01	42.18	42.35	42.52	42.69	42.70	42.75	42.80
Maximum Power Current - I _{mp} [A]	16.84	16.91	16.97	17.04	17.10	17.21	17.32	17.42
Open-circuit Voltage - V _{oc} [V]	49.84	50.02	50.20	50.38	50.56	50.70	50.75	50.80
Short-circuit Current - I _{sc} [A]	17.60	17.67	17.73	17.80	17.87	17.98	18.09	18.20

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Cell Temperature 25°C, AM=1.5.

*Power measurement tolerance: ±3%

Application Conditions

Level T ₉₈ ≤ 70 °C	-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 %

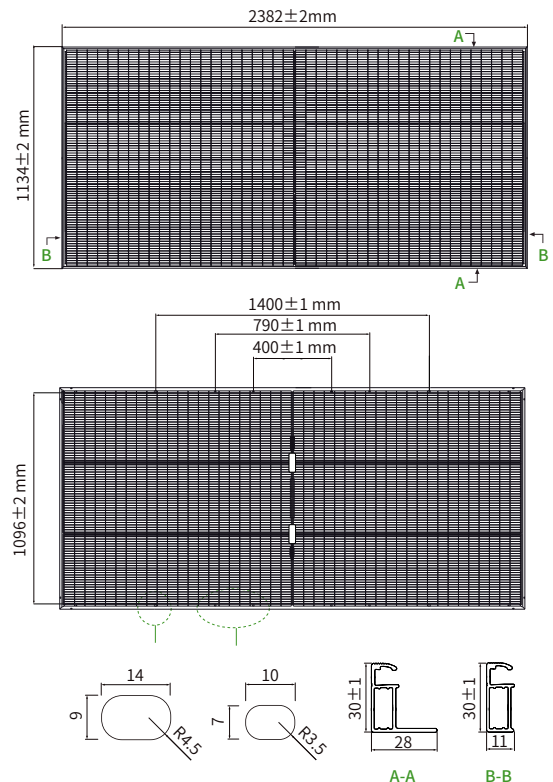
*or -40°C~85°C as per IEC 61215:2016

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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.

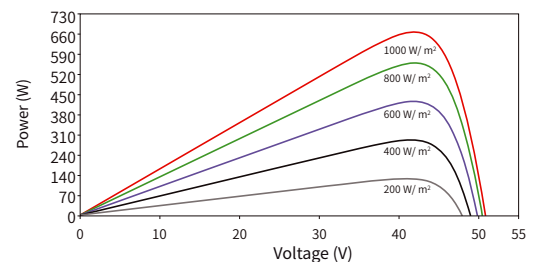
Engineering Drawings



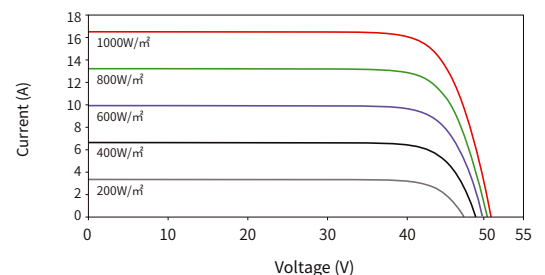
Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

Power-Voltage Curves (66QL6-BDV 660W)



Current-Voltage Curves (66QL6-BDV 660W)



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