

# 66QL6-BDV

650-670 Watt

85 $\pm$ 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.



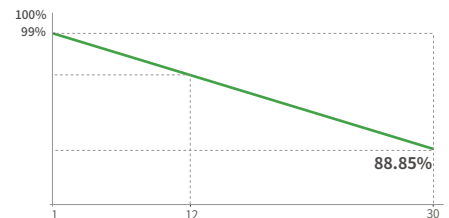
## Industry Leading Warranty

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

**JKM650-670N-66QL6-BDV-F2-EN**

# 66QL6-BDV 650-670 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<br>(Including Connector) | 4.0 mm <sup>2</sup><br>(+): 600 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<br>(Two pallets = One stack) | 36 pcs/pallet, 72 pcs/stack,<br>720 pcs/ 40'HQ Container |

## Specifications (STC)

|                                 |            |       |       |       |       |
|---------------------------------|------------|-------|-------|-------|-------|
| Maximum Power - Pmax [Wp]       | 650        | 655   | 660   | 665   | 670   |
| Maximum Power Voltage - Vmp [V] | 42.57      | 42.70 | 42.83 | 42.96 | 43.09 |
| Maximum Power Current - Imp [A] | 15.27      | 15.34 | 15.41 | 15.48 | 15.55 |
| Open-circuit Voltage - Voc [V]  | 50.26      | 50.44 | 50.62 | 50.80 | 50.98 |
| Short-circuit Current - Isc [A] | 15.98      | 16.04 | 16.10 | 16.16 | 16.22 |
| Module Efficiency STC [%]       | 24.06      | 24.25 | 24.43 | 24.62 | 24.80 |
| 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<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Specifications (BNPI)

|                                 |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power - Pmax [Wp]       | 724   | 729   | 735   | 741   | 746   |
| Maximum Power Voltage - Vmp [V] | 42.52 | 42.69 | 42.86 | 43.03 | 43.20 |
| Maximum Power Current - Imp [A] | 17.04 | 17.10 | 17.17 | 17.23 | 17.30 |
| Open-circuit Voltage - Voc [V]  | 50.38 | 50.56 | 50.74 | 50.92 | 51.10 |
| Short-circuit Current - Isc [A] | 17.80 | 17.87 | 17.94 | 18.00 | 18.07 |

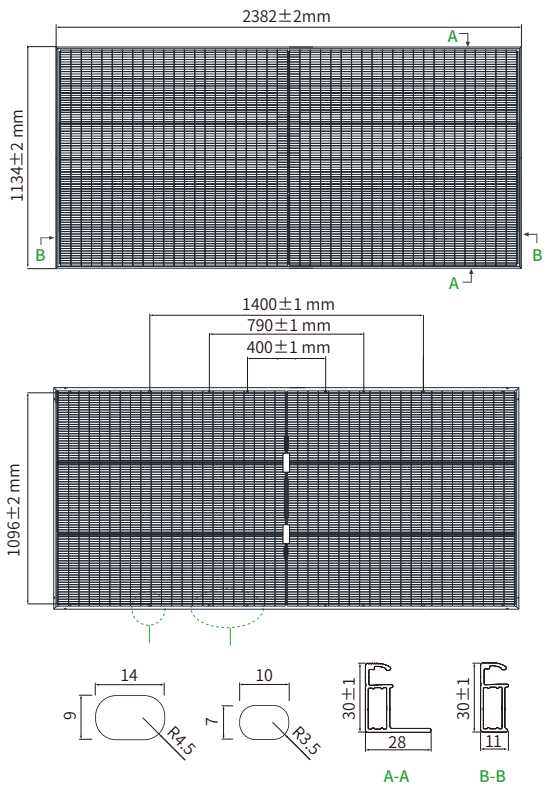
BNPI: Irradiance: Front 1000W/m<sup>2</sup>, Rear 135W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Application Conditions

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Level T <sub>98</sub> ≤ 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 % |

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

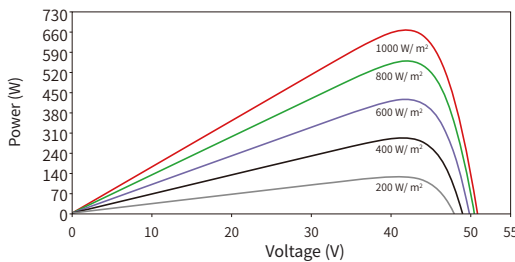
## Engineering Drawings



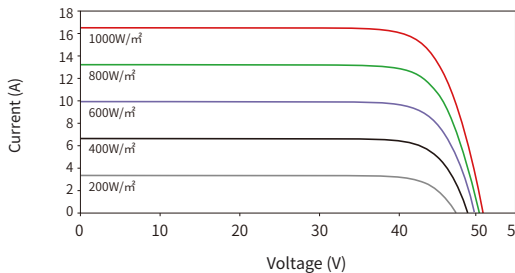
Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

## Electrical Performance

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



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



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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.

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