

# 48QL6-DV

460-485 Watt

MONO-FACIAL MODULE  
WITH DUAL GLASS



## 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.



## Optimized Heat resistance

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



## Proven Low Light Performance

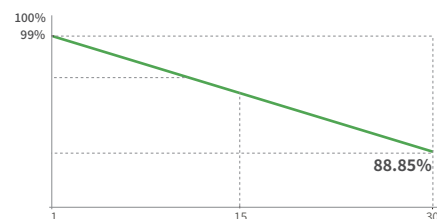
Enhanced cell structure ensures superior module performance under low-light conditions.



## Mechanical Load Enhanced

Certified to withstand:  
6000 Pa front side max static test load  
4000 Pa rear side max static test load

Extended warranty  
exclusively for BayWa r.e.



25 Year  
Product Warranty

30 Year  
Linear Power  
Warranty

1%  
First-year  
Degradation

0.35%  
Annual Degradation  
Over 30 Years



## Industry Leading Warranty

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

- 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

JKM460-485N-48QL6-DV-F3-EU-BayWa

# 48QL6-DV 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                         | MC4-EVO2A                       |
| Output Cables<br>(Including Connector) | ≥4.0 mm <sup>2</sup><br>1400 mm |

\* MC4-EVO2 available upon request and subject to availability

## Packaging Configuration

|                                             |                                                           |
|---------------------------------------------|-----------------------------------------------------------|
| Pallet Dimensions                           | 1792×1140×1249 mm                                         |
| Packing Detail<br>(Two pallets = One stack) | 37 pcs/pallets, 74 pcs/stack,<br>962 pcs/ 40'HQ Container |

## Specifications (STC)

|                                             |            |       |       |       |       |       |
|---------------------------------------------|------------|-------|-------|-------|-------|-------|
| Maximum Power - P <sub>max</sub> [Wp]*      | 460        | 465   | 470   | 475   | 480   | 485   |
| Maximum Power Voltage - V <sub>mp</sub> [V] | 30.57      | 30.74 | 30.93 | 31.11 | 31.30 | 31.48 |
| Maximum Power Current - I <sub>mp</sub> [A] | 15.05      | 15.13 | 15.20 | 15.27 | 15.34 | 15.41 |
| Open-circuit Voltage - V <sub>oc</sub> [V]  | 35.67      | 35.92 | 36.17 | 36.42 | 36.67 | 36.92 |
| Short-circuit Current - I <sub>sc</sub> [A] | 15.72      | 15.77 | 15.82 | 15.86 | 15.90 | 15.95 |
| Module Efficiency STC [%]                   | 23.02      | 23.27 | 23.52 | 23.77 | 24.02 | 24.27 |
| Power Sorting                               | 0 ~ + 3 %  |       |       |       |       |       |
| Temperature Coefficient of P <sub>max</sub> | -0.26 %/°C |       |       |       |       |       |
| Temperature Coefficient of V <sub>oc</sub>  | -0.24 %/°C |       |       |       |       |       |
| Temperature Coefficient of I <sub>sc</sub>  | 0.046 %/°C |       |       |       |       |       |

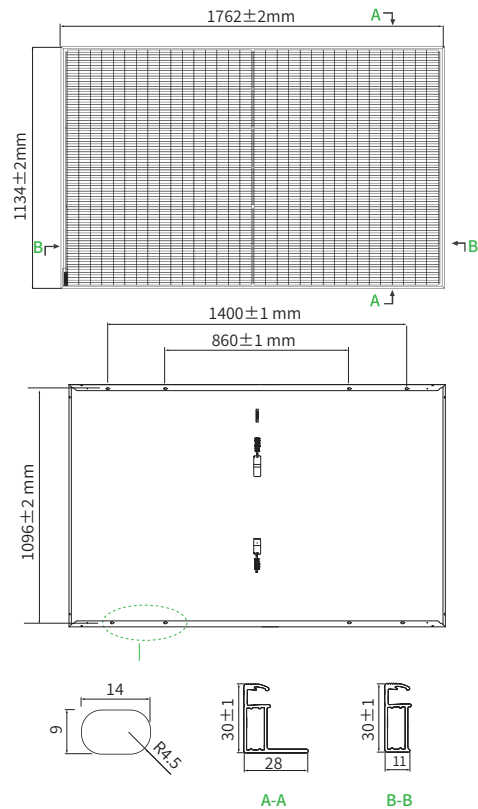
STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5. \*Power measurement tolerance: ±3%

## Application Conditions

|                               |                     |
|-------------------------------|---------------------|
| Level T <sub>98</sub> ≤ 70 °C | - 40 °C to + 70 °C* |
| Maximum System Voltage        | 1500 VDC (IEC)      |
| Maximum Series Fuse Rating    | 30 A                |

\*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

