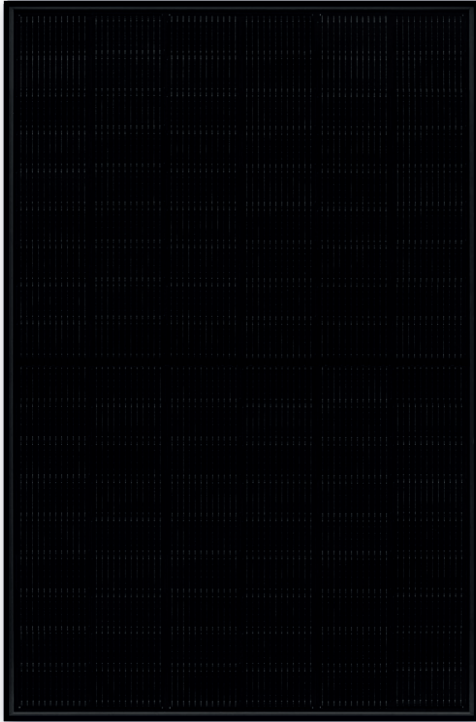


0~+5W Positive power tolerance | 22,00% Maximum efficiency



## JNL SOLAR, A HIGH-QUALITY MODULE THROUGH ITS HIGH PERFORMANCE CONSTRUCTION

Extensive experience in technology, constant innovation and sustainable optimisation form the basis for the performance of our high-quality modules. JNL Solar carries out all stages of construction at its production site, enabling us to guarantee our customers the highest quality in every step, from assembly to finishing.

Our modules are extremely versatile in their use. They offer suitable solutions for any installation and sustainable performance around the world.



A sleek, elegant design that blends in perfectly with the roof - an all-black photovoltaic module from cell to frame.



Extra efficiency and easy maintenance thanks to highly transparent auto-cleaning glass.



Durable safety and guaranteed top performance. 25-year performance guarantee and 25-year product guarantee.



The N-Type combines superior reliability with reduced LID/LETID attenuation.



High conversion efficiency thanks to high-quality modules and advanced cell technology.



PID resistance and protection against hotspots verified and rigorous production process.



Ideal for private or commercial installations. High power output reduces installation costs.



High reliability thanks to rigorous quality control. More than 30 in-house tests (UV, HF, and many others). Our tests go beyond certification requirements.

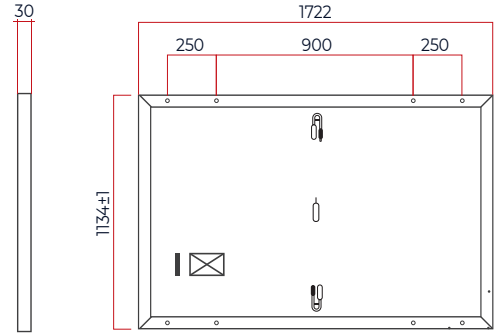


Our panels are tested and certified to withstand extreme environmental conditions: wind loads (2400 Pa) and snow loads (5400 Pa).



## MECHANICAL DATA

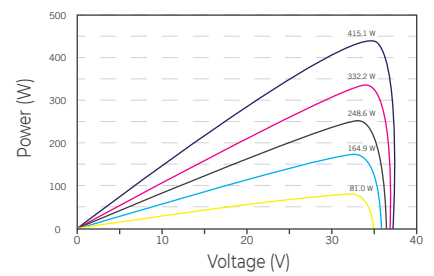
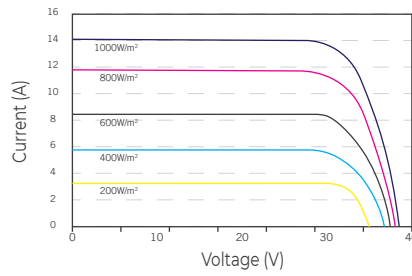
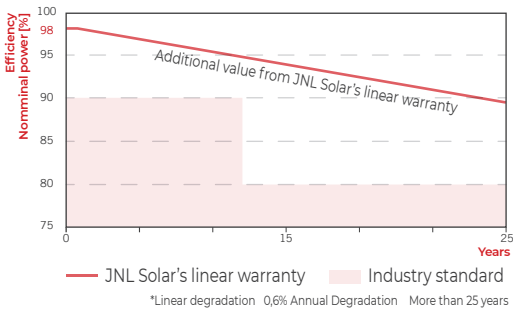
|                 |  |
|-----------------|--|
| Dimensions      | 1722 mm x 1134mm x 30mm (with frame)     |
| Weight          | 21,5 kg ± 3%                             |
| Cells           | N type Mono-Crystalline, 16BB, 182x91 mm |
| Front panel     | 3,2mm                                    |
| Frame           | Anodized Aluminium Alloy                 |
| Junction box    | IP68                                     |
| Cable           | 4mm <sup>2</sup> , 1100mm                |
| Connector       | MC4 Compatible IP68                      |
| Number of cells | 108 cells (Half-Cell)                    |



## ELECTRICAL DATA

| TYPICAL TYPE               |           | 410                         | 415    | 420    | 425    | 430    |
|----------------------------|-----------|-----------------------------|--------|--------|--------|--------|
| Max Power                  | $P_{max}$ | 410                         | 415    | 420    | 425    | 430    |
| Max Power Voltage          | $V_{mp}$  | 31,35                       | 31,68  | 32,02  | 32,35  | 32,68  |
| Max Power Current          | $I_{mp}$  | 13,08                       | 13,10  | 13,12  | 13,14  | 13,16  |
| Open Circuit Voltage       | $V_{oc}$  | 38,34                       | 38,41  | 38,48  | 38,54  | 38,60  |
| Short Circuit Current      | $I_{sc}$  | 13,76                       | 13,77  | 13,78  | 13,79  | 3,80   |
| Module Efficiency          | %         | 21,00%                      | 21,30% | 21,50% | 21,80% | 22,00% |
| Power Tolerance            |           | 0~+5W                       |        |        |        |        |
| Max System Voltage         |           | DC 1500V (TUV) / 1000V (UL) |        |        |        |        |
| Maximum Series Fuse Rating |           | 30A                         |        |        |        |        |

STC : Irradiance 1000W/m<sup>2</sup>, 25°C, AM 1.5



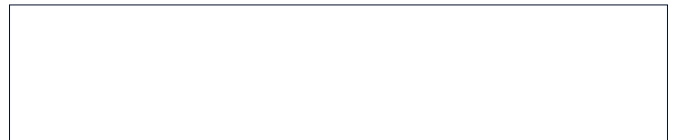
## TEMPERATURE RATINGS

|                                 |           |   |          |
|---------------------------------|-----------|---|----------|
| Temperature Coefficient of Isc  | 0.045%/°C | Operational Temperature                   | -40±85°C |
| Temperature Coefficient of Voc  | -0.25%/°C | NOCT (Nominal Operating Cell Temperature) | 42±2°C   |
| Temperature Coefficient of Pmax | -0.30%/°C |   |          |

## PACKAGING CONFIGURATION

|                      |            |
|----------------------|------------|
| Container            | 40 HQ      |
| Quantity / pallet    | 36 pieces  |
| Pallets / container  | 26 pieces  |
| Quantity / container | 936 pieces |

## AUTHORIZED DEALER



## CERTIFICATIONS



IEC 61215-1:2016 - IEC 61215-1-1:2016 - IEC 61215-2:2016 - IEC 61730-1:2016 - IEC 61730-2:2016 - EN 61215-1:2016 - EN 61215-1-1:2016 - EN 61215-2:2017 - EN IEC 61730-1:2018 - EN IEC 61730-1:2018/AC:2018-06 - EN IEC 61730-2:2018 - EN IEC 61730-2:2018/AC:2018-06

CAUTION: Read the instructions for safety installations before using the product JNLSolar (All rights reserved) © 2023. Specifications included in this data sheet are subject to change without notice