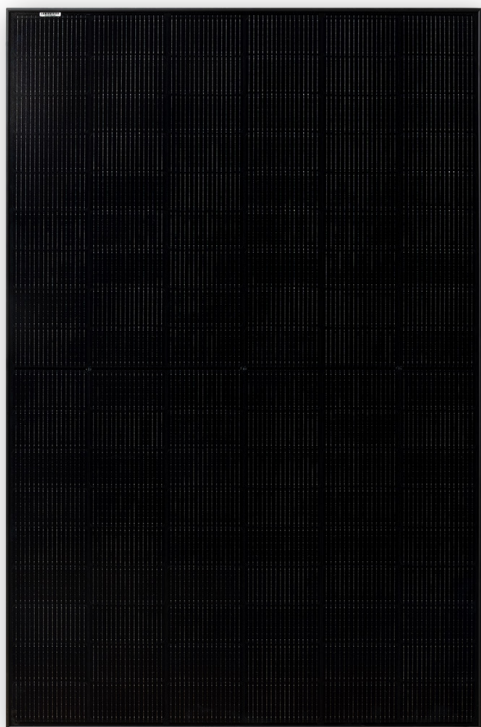


## JLSDG435N-108M10 410 - 435

Mono N-Type | Bifacial

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



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

Building on strong solar technology expertise and continuous innovation, JNL Solar offers the OptimaX 435Wc Full Black module. This module benefits from our fully integrated manufacturing, ensuring optimal quality at each step, from assembly to finishing. The 435Wc Full Black combines bifacial technology with a double-glass design for exceptional durability and performance. Its all-black aesthetic makes it the ideal choice for installations where design is a key criterion. Designed to be versatile and long-lasting, this module is ready to excel in all conditions.



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. 30-year performance warranty and 25-year product warranty.



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.



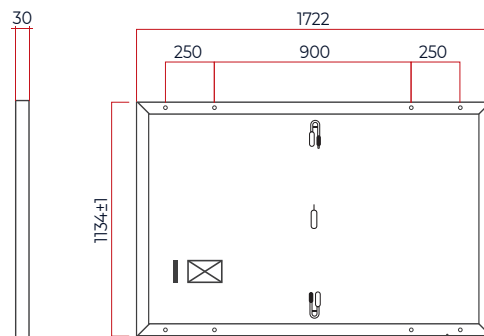
High reliability thanks to rigorous quality control. More than 30 in-house tests (UV, HF, and many others). Our tests go beyond certification requirements.



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

## MECANICAL DATA

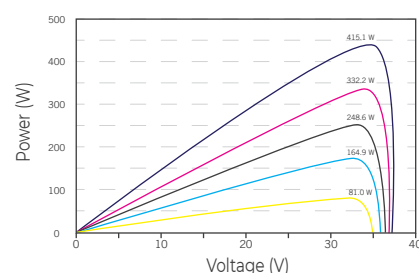
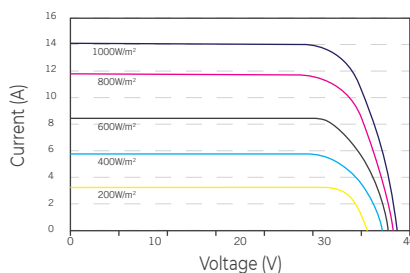
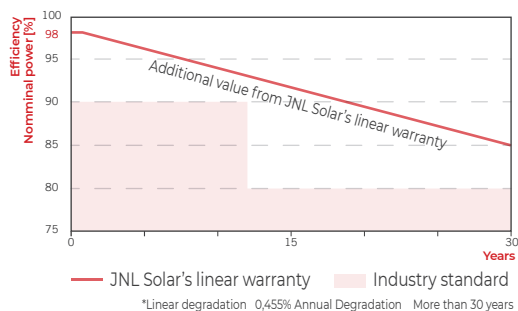
|                 |   |
|-----------------|---|
| Dimensions      | 1722 mm x 1134mm x 30mm (with frame)  |
| Weight          | 23,3 kg ± 3%  |
| Cells           | N type Mono-Crystalline, 16BB, 182x91 mm  |
| Glass           | Front: 2.0 mm High Transmission, AR Coated Heat Strengthened Glass<br>Back: 2.0 mm High Transmission, AR Coated Heat Strengthened Glass |
| 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    | 435    |
|----------------------------|-----------|-----------------------------|--------|--------|--------|--------|--------|
| Max Power                  | $P_{max}$ | 410                         | 415    | 420    | 425    | 430    | 435    |
| Max Power Voltage          | $V_{mp}$  | 31,35                       | 31,68  | 32,02  | 32,35  | 32,68  | 32,99  |
| Max Power Current          | $I_{mp}$  | 13,08                       | 13,10  | 13,12  | 13,14  | 13,16  | 13,19  |
| Open Circuit Voltage       | $V_{oc}$  | 38,34                       | 38,41  | 38,48  | 38,54  | 38,60  | 38,66  |
| Short Circuit Current      | $I_{sc}$  | 13,76                       | 13,77  | 13,78  | 13,79  | 13,80  | 13,81  |
| Module Efficiency          | %         | 21,00%                      | 21,30% | 21,50% | 21,80% | 22,00% | 22,30% |
| 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