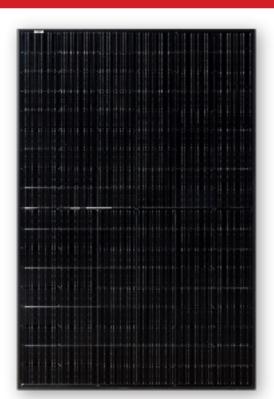




JLS108M 410 - 440

Mono N-Type | Bifacial Transparent

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



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

Drawing on our expertise in solar technologies and a culture of innovation, JNL Solar presents the OptimaX 440Wc with a black frame. Manufactured entirely in our facilities, this module guarantees unmatched quality at each stage. The 440Wc integrates bifacial technology and a double-glass design, offering enhanced durability and optimized performance. Its transparent backsheet maximizes light capture, making it ideal for installations focused on performance above all. This versatile module is designed for lasting performance in a wide variety of applications.t







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-		

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 guarantee and 25-year product guarantee.



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

High conversion efficiency thanks to highquality modules and advanced cell technology.



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



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

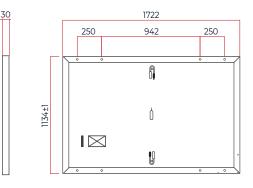


Our panels are tested and certified to withstand extreme environmental conditions: wind loads (2400 Pa) and snow loads (5400 Pa).



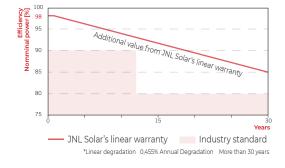
MECANICAL DATA

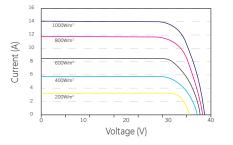
Dimensions	1722 mm x 1134mm x 30mm (with frame)	
Weight	23,3 kg ±3%	
Cells	N type Mono-Crystalline, 16BB, 182x91 mm	
Glass	Front: 2.0 mm High Transmission, AR Coated Heat Strengthened Glass	
	Back: 2.0 mm High Transmission, AR Coated Heat Strengthened Glass	
Frame	Anodized Aluminium Alloy	
Junction box	IP68	
Cable	4mm², 1100mm	
Connector	MC4 Compatible IP68	
Number of cells	108 cells (Half-Cell)	

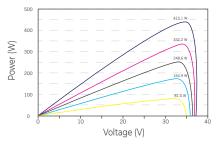


TYPICAL TYPE 415 420 425 430 440 P_{max} Max Power 415 420 425 430 440 Max Power Voltage V_{mp} 31,37 31,49 31,64 31,79 32,09 Max Power Current 13.23 13.34 13.44 13.53 13,72 $\mathbf{I}_{\rm mp}$ Open Circuit Voltage V_{oc} 38,04 38,13 38,24 38,34 38,53 Short Circuit Current I_{sc} 13,96 14,07 14,16 14,25 14,43 Module Efficiency % 21,25% 21.51% 21,76% 22,02% 22,53% **Power Tolerance** 0~+5W DC 1500V (TUV) / 1500V (UL) Max System Voltage Maximum Series Fuse Rating 30A STC : Irradiance 1000W/m², 25°C, AM 1.5

ELECTRICAL DATA







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



