

415W / NU-JC 415

Mono-crystalline PERC Half-Cell Module

Sharp Solar. The sun is the answer.



Sharp, leader in the solar industry: Shipping more than 17.0 GW globally Experience in PV technology since 1959



past 6 decades of making modules and validate our choices with rigorous testing that goes well beyond standard test protocols established by IEC. We have selected high efficiency monocrystalline cells to give you more power and more energy per square meter.

We select the materials based on what we have learned over the

Our warranties are based on real history of past installations beyond the timespans stipulated.

Using breakthrough technology, made possible by over 60 years of proprietary research and development, Sharp's solar modules incorporate an advanced surface texturing process to increase light absorption and improve efficiency.

Common applications include commercial and residential grid-tied roof systems as well as ground mounted arrays. Designed to withstand rigorous operating conditions, this module offers high power output per square meter of solar array.

RESIDENTIAL PURPOSE 415 WATT MONOCRYSTALLINE MODULE FROM THE WORLD'S TRUSTED SOURCE FOR SOLAR.

Product features

- Positive Power Tolerance:
 Production controlled positive power tolerance from 0 to + 5%
 Only modules will be delivered that have the specified power or more for high energy yield.
- → High-performance photovoltaic modules:
 Made of mono-crystalline PERC Half-Cells with module efficiencies of up to 21.25%.
- Guarantee:
 - 25 years Linear power output guarantee
 - 25 years* Product guarantee
 - *Applicable for modules installed in Australia for residential use. Please check the guarantee conditions for the details.
- 10 busbars technology for enhancing the power output

MECHANICAL DATA 182×91mm (Typ.), mono crystalline silicon 108 pcs. (54 series cells in parallel) No. of Cell (connections) 1,722×1,134×30mm Dimensions (LxWxD) 20.7kg Weight Anodized aluminum alloy (Color: Silver) Frame Low iron tempered glass Glass Weatherproof film (Color: White) Back sheet Junction Box IP-rating 68 (at live parts with the silicone potting) H1Z2Z2-K or 62930 IEC131 cable 4.0mm square Cable Length: 1250±50mm PV-KST4, PV-KBT4Stäubli Electrical Connector Class C Fire Rating

Electrical data (at STC*)	i	
Maximum power	Pmax	415 Wp
Tolerance of Pmax		+5% / -0%
Open-circuit voltage	Voc	38.08 V
Short-circuit current	Isc	13.87 A
Voltage at point of maximum power	Vmpp	31.49 V
Current at point of maximum power	Impp	13.18 A
Module efficiency	ηm	21.25 %

STC = Standard Test Conditions: irradiance 1,000 W/m², AM 1.5, cell temperature 25 °C Tolerance = Voc, Isc \pm 10% from the rated values

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Limit values

Maximum system voltage	1,000 VDC
Over-current protection	25A
Temperature range	–40 to +85 °C
Maximum mechanical test load	2.400 Pa

Standards and Certification

- * IEC 61215
- * IEC 61730

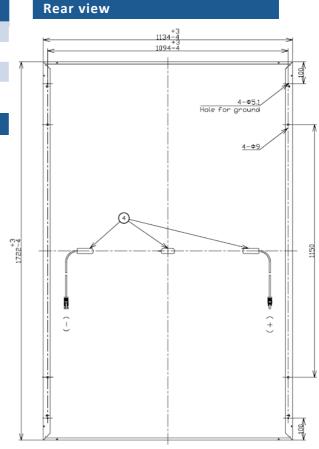
Country of Manufacture

China

Temperature coefficient		
Pmax	-0.341% /°C	
Voc	-0.262 % /°C	
Isc	+0.054% / °C	

Certificate Holder

Sharp Solar Solution Asia Co., Ltd



SHARP

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