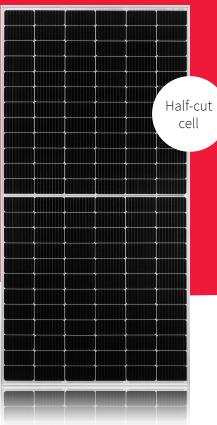
NU-JD Series

440 W

The Project Solution



Powerful product features



Max. system voltage 1,500 V Lower BOS costs by longer strings



Guaranteed positive power tolerance (0/+5%)



PERC monocrystalline silicon photovoltaic modules High module efficiency 19.9%



Tested and certified VDE, IEC/EN61215, IEC/EN61730



Safety class II, CE Fire rating class C



Half-cut cell Improved shading performance Lower internal losses Reduced hot spot risk



9BB 9 busbar technology Improved reliability Higher efficiency Reduced series resistance



Robust product design PID resistance test passed Salt mist test passed (IEC61701) Ammonia test passed (IEC62716) Dust and sand test passed (IEC60068)

Your solar partner for life



60 years of solar expertise



Linear power output guarantee



Product guarantee



Local support team in Europe



50 million PV modules installed



Top PV brand award



Energy Solutions



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Electrical data (STC)			
		NU-JD440	
Maximum power	P _{max}	440	Wp
Open-circuit voltage	Voc	49.77	V
Short-circuit current	I _{sc}	11.49	Α
Voltage at point of maximum power	V_{mpp}	41.20	V
Current at point of maximum power	Impp	10.68	Α
Module efficiency	ηm	19.9	%

 $STC = Standard\ Test\ Conditions: irradiance\ 1,000\ W/m^2,\ AM\ 1.5,\ cell\ temperature\ 25\ ^oC.$ Rated electrical characteristics are within $\pm 10\%$ of the indicated values of I_{SC} , V_{OC} and 0 to $\pm 5\%$ of P_{Max} (power measurement tolerance $\pm 3\%$). Reduction of efficiency from an irradiance change of $\pm 1,000\ W/m^2$ to $\pm 200\ W/m^2$ ($\pm 1,000\ W/m^2$) is less than $\pm 3\%$.

Electrical data (NMOT)			
		NU-JD440	
Maximum power	P _{max}	329.21	Wp
Open-circuit voltage	Voc	46.67	V
Short-circuit current	I _{sc}	9.30	А
Voltage at point of maximum power	V_{mpp}	38.46	V
Current at point of maximum power	Impp	8.56	А

 $NMOT = Nominal\ Module\ Operating\ Temperature: 45\ ^{\circ}C, irradiance\ 800\ W/m^{2}, air\ temperature\ of\ 20\ ^{\circ}C, wind\ speed\ of\ 1\ m/s.$

Mechanical data	
Length	2,108 mm
Width	1,048 mm
Depth	40 mm
Weight	25.5 kg

Temperature coefficient			
P _{max}	-0.347%/°C		
Voc	-0.263%/°C		
I _{sc}	0.032%/°C		

Limit values	
Maximum system voltage	1,500 V DC
Over-current protection	20 A
Temperature range	-40 to 85 °C
Max. mechanical load (snow/wind)	2,400 Pa
Tested snow load (IEC61215 test pass*)	5,400 Pa

Packaging data	
Modules per pallet	27 pcs
Pallet size (L × W × H)	2,16 m x 1,13 m x 1,24 m
Pallet weight	Approx. 736 kg

Mounting hole $8 \times \Phi 9$ Mounting hole 4×Φ7 Grounding hole <u>2×Φ4</u> 400 1260 1500 2108 Q

*Please refer to SHARP's installation manual for details.

General data	
Cells	Half-cut cell mono, 166 mm x 83 mm, 9BB, 2 strings of 72 cells in series
Front glass	Anti-reflective high transmissive low iron tempered glass, 3.2 mm
Frame	Anodized aluminium alloy, silver
Backsheet	White
Connection box	IP68 rating, 3 bypass diodes
Cable	ø 4.0 mm², length 1,670 mm [or on request (+) 365 mm, (-) 50 mm]
Connector	C1, IP68



