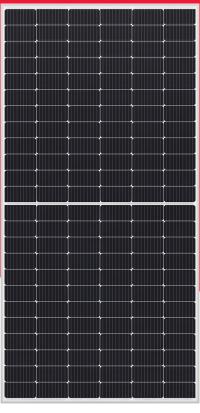
NU-JD445

445 W

The Project Solution



Powerful product features



Guaranteed positive power tolerance (0/+5 %)



High module efficiency 20.1 % PERC monocrystalline silicon photovoltaic modules



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



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



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



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



C € Safety class II, CE Fire rating class C



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



Tier 1 - BloombergNEF



Energy Solutions



Electrical data (STC)			
		NU-JD445	
Maximum power	P _{max}	445	Wp
Open-circuit voltage	Voc	49.04	V
Short-circuit current	I _{sc}	11.55	А
Voltage at point of maximum power	V_{mpp}	41.32	V
Current at point of maximum power	Impp	10.77	А
Module efficiency	ηm	20.1	%

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

Electrical data (NMOT)			
		NU-JD445	
Maximum power	P _{max}	333.96	Wp
Open-circuit voltage	Voc	46.49	V
Short-circuit current	Isc	9.37	А
Voltage at point of maximum power	V_{mpp}	38.52	V
Current at point of maximum power	Impp	8.67	А

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

2,108 mm
1,048 mm
35 mm
25.0 kg

Temperature coefficient			
P _{max}	-0.347 %/°C		
Voc	-0.263 %/°C		
Isc	0.057 %/°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	31 pcs		
Pallet size (L × W × H)	2,14 m x 1,13 m x 1,24 m		
Pallet weight	Approx. 815 kg		

1048 1004 Mounting hole 8×49 Grounding hole 4×45.1

*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
Cable	ø 4.0 mm², length 1,670 mm [or on request (+) 365 mm, (-) 50 mm]
Connection box	IP68 rating, 3 bypass diodes
Connector	C1, IP68

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