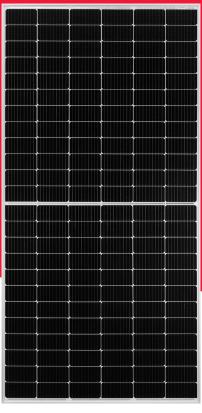
NU-JD445

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	Isc	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}\ (power\ measurement\ tolerance\ \pm 3\ \%). 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

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

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

Temperature coefficient		
P _{max}	-0.347 %/°C	
Voc	-0.263 %/°C	
I _{sc}	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 (IFC61215 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 <u>8×Φ9</u> 850 1400 Q

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

Grounding hole 4×Φ5.1

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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