

NU-JC Series

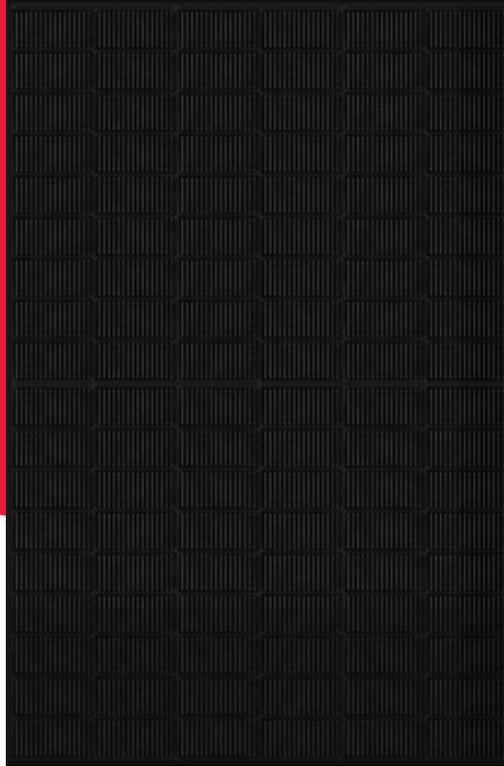
NU-JC420B

420 W

N-Type TOPCon

The Design Solution

Black Backsheet



Powerful product features

+% Guaranteed positive power tolerance (+5/-0 %)^{*1}

MBB MBB busbar technology
Improved reliability
Higher efficiency
Reduced series resistance

 Tested and certified
IEC61215, IEC61730
Fire rating class C

 High module efficiency 21.51 %
N-type TOPCon monocrystalline silicon photovoltaic modules

 Half-cut cell
Improved shading performance
Lower internal losses

Your solar partner for life

60
YEARS 60 years of solar expertise

25
YEARS Linear power output guarantee

25^{*}
YEARS Product guarantee

50
MIL 50 million PV modules installed

1
TIER Tier 1 - BloombergNEF



*1 The power measurement uncertainty of the testing equipment shall be considered to all actual power output measurements when to evaluate the warranted performance.

*2 Applicable for modules installed in Australia for residential use. Please check the guarantee conditions for the details.

Electrical data (STC)*3

NU-JC420B			
Maximum power (+5/-0%) *4	P_{max}	420	W_p
Open-circuit voltage *5	V_{oc}	38.63	V
Short-circuit current *5	I_{sc}	13.86	A
Voltage at point of maximum power	V_{mpp}	32.34	V
Current at point of maximum power	I_{mpp}	12.99	A
Module efficiency	η_m	21.51	%

*3 STC = Standard Test Conditions: irradiance 1,000 W/m², AM 1.5, cell temperature 25 °C.

*4 The power measurement uncertainty of the testing equipment shall be considered to all actual power output measurements when to evaluate the warranted performance.

*5 Tolerance = V_{oc} , I_{sc} ±10% from the rated values

General data

Cells	Half-cut cell mono, 182 x 91 mm, MBB, 2 strings of 54 cells in series
Front glass	Anti-reflective high transmissive low iron tempered glass, 3mm
Fire rating	Class C
Certificate holder	Sharp Solar Solution Asia Co., Ltd
Country of Manufacture	China
Standard and certification	IEC61215, IEC61730

Mechanical data

Dimensions (LxWxD)	1,722 x 1,134 x 30 mm
Weight	20.7kg
Frame	Anodized aluminium alloy, black
Cable	H1Z2Z2-K or 62930 IEC131 cable 4.0mm square, Length:1250±50mm
Junction box	IP rating 68 at liveparts with the silicone potting
Backsheet	Weatherproof film (color: Black)
Connector	PV-KST4, PV-KBT4, Stäubli Electrical

Temperature coefficient

P_{max}	-0.300 %/°C
V_{oc}	-0.259 %/°C
I_{sc}	0.046 %/°C

Limit values

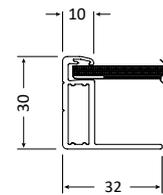
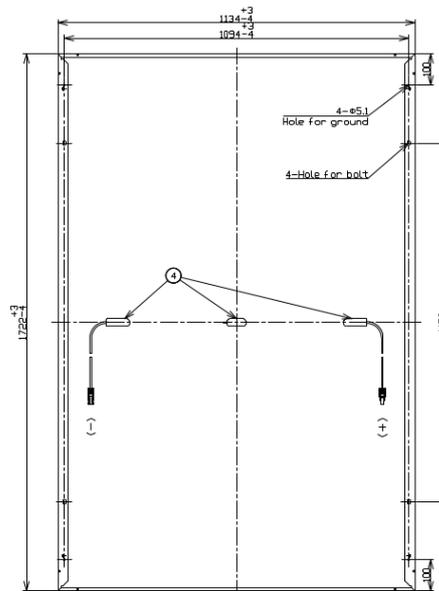
Maximum system voltage	1,000 V DC
Over-current protection	25 A
Temperature range	-40 to +85 °C
Max. mechanical test load	2,400 Pa
Tested snow load	5,400Pa

(IEC61215 test pass*)

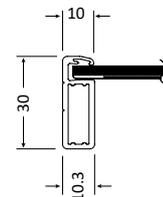
Packaging data

Modules per pallet	36 pcs
Pallet size (L x W x H)	1,754 x 1,125 x 1245 mm
Pallet weight	Approx. 780 kg

Dimensions (mm)



Frame long side cross section



Frame short side cross section

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

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