NB-JD Series

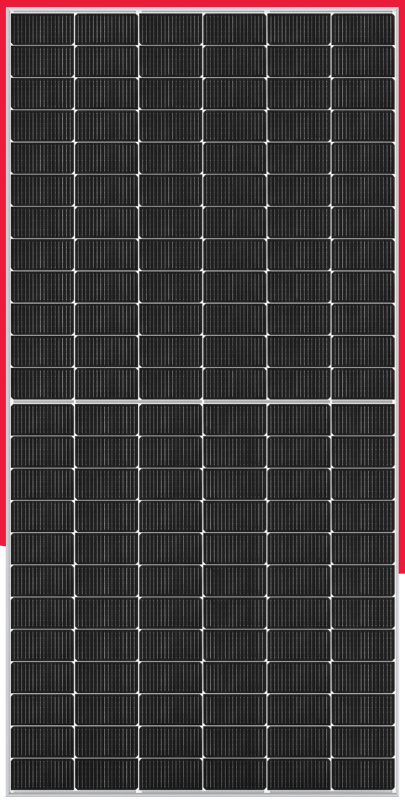
NB-JD575 / 580

575 / 580 W

N-Type TOPCon

The Project Solution

Bifacial



Powerful product features

- Max. system voltage 1,500 V
  Lower BOS costs by longer strings
- Module efficiency
  22.26 / 22.45 %
  N-Type TOPCon monocrystalline silicon photovoltaic modules
- +% Guaranteed positive power tolerance (0/+5 %)
- MBB busbar technology
  Improved reliability
  Higher efficiency
  Reduced series resistance
- Half-cut cell
  Improved shading performance
  Lower internal losses
- Bifacial module
  Additional rear side power gain
- Tested and certified
  VDE, IEC/EN61215, IEC/EN61730
  Safety class II, CE, UKCA, MCS
  Fire rating class A
- 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 60 years of solar expertise
- Local support team in Europe
- 30 YEARS Linear power output guarantee
- 1 TIER Tier 1 - BloombergNEF
- 15* YEARS Product guarantee
  not on roof
- 25* YEARS Product guarantee
  on roof

Energy Solutions

SHARP
Be Original.

* Applicable for modules installed within the EU and additional listed countries.
Please check the guarantee conditions for your area before purchasing.

Electrical data (STC, NMOT)

		NB-JD575 (STC)	NB-JD575 (NMOT)	NB-JD580 (STC)	NB-JD580 (NMOT)	
Maximum power	P_{max}	575	429.36	580	433.09	W_p
Open-circuit voltage	V_{oc}	52.34	48.95	52.55	49.14	V
Short-circuit current	I_{sc}	13.97	11.28	14.03	11.33	A
Voltage at point of maximum power	V_{mpp}	43.01	40.09	43.19	40.25	V
Current at point of maximum power	I_{mpp}	13.37	10.71	13.43	10.76	A
Module efficiency	η_m	22.26		22.45		%
Bifaciality factor		80 ±5		80 ±5		%

STC = Standard Test Conditions: irradiance 1,000 W/m², AM 1.5, cell temperature 25 °C. Rated electrical characteristics are within ±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/m² to 200 W/m² (T_{module} = 25 °C) is less than 3 %.
NMOT = Nominal Module Operating Temperature: 45 °C, irradiance 800 W/m², air temperature of 20 °C, wind speed of 1 m/s.

Bifacial Generation Data (STC)

		NB-JD575					NB-JD580					
Power gain rear side		5	10	15	20	25	5	10	15	20	25	%
Maximum power	P_{max}	603	632	661	689	718	608	637	666	696	725	W_p
Open-circuit voltage	V_{oc}	52.34	52.34	52.34	52.34	52.34	52.55	52.55	52.55	52.55	52.55	V
Short-circuit current	I_{sc}	14.67	15.37	16.07	16.76	17.46	14.73	15.43	16.13	16.84	17.54	A
Voltage at point of maximum power	V_{mpp}	43.01	43.01	43.01	43.01	43.01	43.19	43.19	43.19	43.19	43.19	V
Current at point of maximum power	I_{mpp}	14.04	14.71	15.38	16.04	16.71	14.10	14.77	15.44	16.12	16.79	A

Mechanical data

Length	2,278 mm
Width	1,134 mm
Depth	30 mm
Weight	32.5 kg

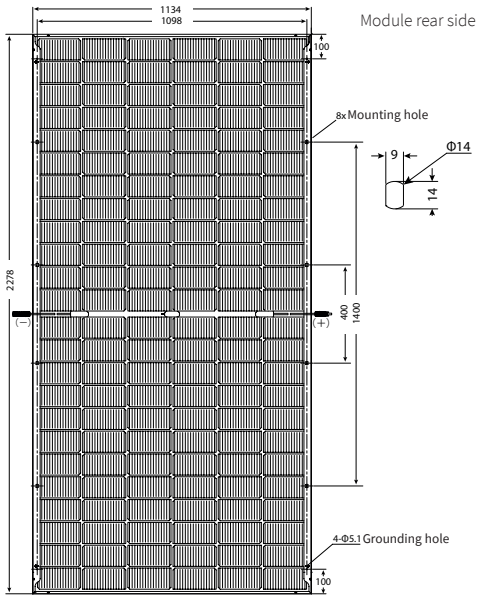
Temperature coefficient

P_{max}	-0.300 %/°C
V_{oc}	-0.248 %/°C
I_{sc}	0.047 %/°C

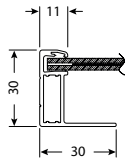
Limit values

Maximum system voltage	1,500 V DC
Over-current protection	30 A
Temperature range	-40 to 85 °C
Max. mechanical load (snow/wind)	2,400 Pa
Tested snow load (IEC61215 test pass*)	5,400 Pa

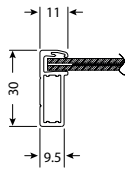
Dimensions (mm)



Module rear side view



Frame long side cross section



Frame short side cross section

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

Packaging data**

Modules per pallet	36 pcs
Pallet size (L × W × H)	2.31 m × 1.12 m × 1.21 m
Pallet weight	Approx. 1.210 kg

**Special offloading requirements, please refer to QR code or: www.sharp.eu/NBJD-offloading

General data

Cells	Half-cut cell mono, 182 mm x 91 mm, MBB, 2 strings of 72 cells in series
Front glass	Anti-reflective high transmissive low iron tempered glass, 2 mm
Rear glass	Tempered glass, 2 mm
Frame	Anodized aluminium alloy, silver
Cable	ø 4.0 mm², length (+) 400 mm, (-) 200 mm
Connection box	IP68 rating, 3 bypass diodes
Connector	C1, IP68

NBJD575EN1023

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Be Original.

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