## NB-JD540

540 W

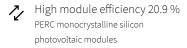
The Project Solution

## Bifacial



## Powerful product features





**+%** 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
  Reduced hot spot risk
- Bifacial module

  Additional rear side power gain
- Tested and certified

  VDE, IEC/EN61215, IEC/EN61730

  G 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

Local support team in Europe

Linear power output guarantee

50 million PV modules installed

.**5\*** Prod

Product guarantee



Tier 1 - BloombergNEF







Electrical data (STC, NMOT)				
		NB-JD540 (STC)	NB-JD540 (NMOT)	
Maximum power	P <sub>max</sub>	540	402.97	Wp
Open-circuit voltage	Voc	50.24	46.98	V
Short-circuit current	I <sub>sc</sub>	13.69	11.05	А
Voltage at point of maximum power	$V_{mpp}$	42.06	39.20	V
Current at point of maximum power	Impp	12.84	10.28	А
Module efficiency	ηm	20.9		%
Bifaciality factor		70 ±5		%

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

NMOT = Nominal Module Operating	Temperature: 45 °C, irradiance 800 W/m²,	, air temperature of 20 °C, wind speed of 1 m/s.
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Bifacial Generation Data (STC)							
		NB-JD540					
Power gain rear side		5	10	15	20	25	%
Maximum power	P <sub>max</sub>	566.96	594.06	620.80	648.06	675.06	Wp
Open-circuit voltage	Voc	50.24	50.24	50.24	50.24	50.24	V
Short-circuit current	Isc	14.37	15.06	15.74	16.43	17.11	А
Voltage at point of maximum power	$V_{mpp}$	42.06	42.06	42.06	42.06	42.06	V
Current at point of maximum power	Impp	13.48	14.12	14.76	15.41	16.05	А

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

Temperature coefficient		
P <sub>max</sub>	-0.349 %/°C	
Voc	-0.267 %/°C	
sc	0.049 %/°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

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/NBJD540-offloading



mensions (mm)			
1134 - 1098 -		ule rear side view	
	8x Mounting	©14 ± **	me long side cross section
	4-05.1 Groun	nding hole Fram	e short side cross section

 $<sup>^{\</sup>star}$ Please refer to SHARP's installation manual for details.

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 (+) 397 mm, (-) 50 mm [or on request (+)/(-) 1,500 mm]
Connection box	IP68 rating, 3 bypass diodes
Connector	C1, IP68

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