NB-JD540

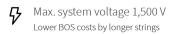
540 W

The Project Solution

Bifacial



Powerful product features



High module efficiency 20.9 %
PERC 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
 Reduced hot spot risk
- Bifacial module

 Additional rear side power gain
- Tested and certified

 VDE, IEC/EN61215, IEC/EN61730

 C Safety class II, CE

 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 of solar expertise

Local support team in Europe

Linear power output guarantee

50 million PV modules installed



Product guarantee



Tier 1 - BloombergNEF





Electrical data (STC, NMOT)				
		NB-JD540 (STC)	NB-JD540 (NMOT)	
Maximum power	P _{max}	540	402.97	Wp
Open-circuit voltage	Voc	50.24	46.98	V
Short-circuit current	Isc	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	η_{m}	20.9		%
Bifaciality factor		70 ±5		%

 $STC = Standard \ Test Conditions: irradiance \ 1,000 \ W/m^2, AM \ 1.5, cell \ temperature \ 25 \ ^\circ C. \ Rated \ electrical \ characteristics \ are \ within \ \pm 10 \ \% \ of \ the \ indicated \ values \ of \ I_{SC}, \ V_{OC} \ and \ 0 \ to \ +5 \ \% \ of \ P_{max}. \ Reduction \ of \ efficiency \ from \ an \ irradiance \ change \ of \ 1,000 \ W/m^2 \ to \ 200 \ W/m^2 \ (T_{module} = 25 \ ^\circ C) \ is \ less \ than \ 3 \ \%.$ $NMOT = Nominal \ Module \ Operating \ Temperature: \ 45 \ ^\circ C, \ irradiance \ 800 \ W/m^2, \ air \ temperature \ of \ 20 \ ^\circ C, \ wind \ speed \ of \ 1 \ m/s.$

Bifacial	Generation I	Data ((STC)	
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		NB-JD540					
Power gain rear side		5	10	15	20	25	%
Maximum power	P _{max}	566.96	594.06	620.80	648.06	675.06	W_{p}
Open-circuit voltage	Voc	50.24	50.24	50.24	50.24	50.24	٧
Short-circuit current	Isc	14.37	15.06	15.74	16.43	17.11	Α
Voltage at point of maximum power	V_{mpp}	42.06	42.06	42.06	42.06	42.06	٧
Current at point of maximum power	Impp	13.48	14.12	14.76	15.41	16.05	Α

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

Temperature coefficient		
Pmax	-0.349 %/°C	
Voc	-0.267 %/°C	
lee.	0.049 %/℃	

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



**Special offloading requirements, please refer to QR code or: www.sharp.eu/NBJD540-offloading



nensio	ns (mm)		
1	1134 1098	Module rear side view	
		8x Mounting hole	
		9 014	11 08
2278		(+) 4 1400	Frame long side cross section
		• V	11 OR
¥		4-05.1 Grounding hole	¥ السا Frame short side cross section

^{*}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

