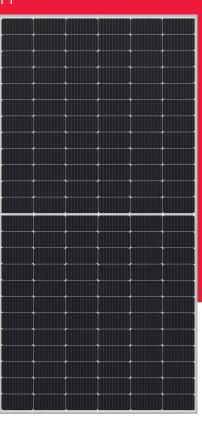
NB-JD540

540 W The Project Solution

Bifacial





Powerful product features

- Max. system voltage 1,500 V Lower BOS costs by longer strings
- 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
- Bifacial module

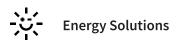
 Additional rear side power gain



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
- 15* Product guarantee not on roof
- Product guarantee on roof





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	I _{sc}	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		%

 $STC = Standard \ Test \ Conditions: irradiance \ 1,000 \ W/m^2, \ AM \ 1.5, cell \ temperature \ 25 \ ^\circ C. \ Rated \ electrical \ characteristics \ are \ within \ \pm 10 \ \% \ of \ the \ indicated \ values \ of \ l_{SC}, \ V_{OC} \ and \ 0 \ to \ +5 \ \% \ of \ P_{max}. \ Reduction \ of \ efficiency \ from \ an \ irradiance \ change \ of \ 1,000 \ W/m^2 \ to \ 200 \ W/m^2 \ io \ 200 \ W/m^2 \ io \ 200 \ W/m^2 \ io \ 200 \ W/m^2, \ air \ temperature \ of \ 20 \ ^\circ C, \ wind \ speed \ of \ 1 \ m/s.$

Bifacial Generation Data (STC)							
		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	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 _{max}	-0.349 %/°C	
Voc	-0.267 %/°C	
I _{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 requirem	nents

please refer to QR code or: www.sharp.eu/nbjd-offloading



1098 Module rear side view 2278 Frame long side cross section 4-Φ5.1 Grounding hole 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 semi-tempered glass, 2 mm
Rear glass	Semi-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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