NB-JD545 / 550

545 / 550 W The Project Solution

Bifacial



Powerful product features



Module efficiency 21.1 / 21.3 %
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



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

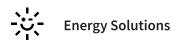
50 million PV modules installed



Product guarantee



Tier 1 - BloombergNEF





		NB-JD545 (STC)	NB-JD545 (NMOT)	NB-JD550 (STC)	NB-JD550 (NMOT)	
Maximum power	P _{max}	545	406.79	550	410.52	Wp
Open-circuit voltage	Voc	50.40	47.13	50.63	47.35	V
Short-circuit current	I _{sc}	13.77	11.12	13.83	11.17	А
Voltage at point of maximum power	V_{mpp}	42.25	39.38	42.44	39.55	V
Current at point of maximum power	Impp	12.90	10.33	12.96	10.38	А
Module efficiency	ηm	21.1		21.3		%
Bifaciality factor		70 ±5		70 ±5		%
$STC = Standard\ Test\ Conditions: irradiance\ 1,000\ W/m^2$ from an irradiance change of 1,000\ W/m^2 to 200\ W/m NMOT = Nominal\ Module\ Operating\ Temperature: 45	² (Tmodule = 25	°C) is less than 3 %.		of the indicated values of I_{SC} , V_{O}	_C and 0 to +5 % of P _{max} . Reduction	n of efficien
Different all Comment to a Dealer (CTC)						
Bifacial Generation Data (STC)						
Bifacial Generation Data (STC)		NB	JD545	NB-	JD550	

Bifacial Generation Data (STC)												
				NB-JD545	5				NB-JD550)		
Power gain rear side		5	10	15	20	25	5	10	15	20	25	%
Maximum power	P_{max}	572.49	599.53	626.99	654.03	681.49	577.61	605.19	632.36	659.94	687.53	W_{p}
Open-circuit voltage	Voc	50.40	50.40	50.40	50.40	50.40	50.63	50.63	50.63	50.63	50.63	V
Short-circuit current	I _{sc}	14.46	15.15	15.84	16.52	17.21	14.52	15.21	15.90	16.60	17.29	Α
Voltage at point of maximum power	V_{mpp}	42.25	42.25	42.25	42.25	42.25	42.44	42.44	42.44	42.44	42.44	V
Current at point of maximum power	Impp	13.55	14.19	14.84	15.48	16.13	13.61	14.26	14.90	15.55	16.20	Α

2,278 mm
1,134 mm
30 mm
32.5 kg

Temperature coefficient		
P _{max}	-0.349 %/°C	
Voc	-0.267 %/°C	
Isc	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/NBJD-offloading



Dimensions (mm)	
1134 Module rear side view	
sx Mounting hole	11 -
4-05.1 Grounding hole	Frame long side cross section 111 98 9.5 Frame short side cross section

 $^{{}^\}star \text{Please}$ refer to SHARP's installation manual for details.

General data	
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

SHARP Electronics GmbH Energy Solutions Nagelsweg 33 – 35 20097 Hamburg, Germany T: +49 40 2376 2436 E: SolarInfo.Europe@sharp.eu

