

SHARP

ND-RB270 | 270 W
ND-RB275 | 275 W

The reliable solution (RB)
270/275W
Poly



For your independence

Take advantage of solar panels + battery solutions for maximum independence



55 years of solar expertise



Guaranteed positive power tolerance (0/+5 %)



Top PV brand award



Proven Quality
TÜV, IEC/EN61215, IEC/EN61730
Safety class II / CE
Application class A
DIN EN 13501-1 (class E)



Polycrystalline silicon photovoltaic modules



10 YEARS Product guarantee



25 YEARS Linear power output guarantee



Robust product design
Ammonia test passed (IEC62716)
Salt mist test passed (IEC61701)

Electrical data (STC)

		ND-RB275	ND-RB270	
Maximum power	P_{max}	275	270	W_p
Open-circuit voltage	V_{oc}	38.5	38.4	V
Short-circuit current	I_{sc}	9.25	9.18	A
Voltage at point of maximum power	V_{mpp}	31.1	30.9	V
Current at point of maximum power	I_{mpp}	8.84	8.73	A
Module efficiency	η_m	16.8	16.5	%

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 Isc, Voc and 0 to +5% of Pmax (power measurement tolerance ±3%).

Electrical data (NOCT)

		ND-RB275	ND-RB270	
Maximum power	P_{max}	204	200	W_p
Open-circuit voltage	V_{oc}	35.6	35.5	V
Short-circuit current	I_{sc}	7.47	7.41	A
Voltage at point of maximum power	V_{mpp}	29.0	28.7	V
Current at point of maximum power	I_{mpp}	7.03	6.97	A

Electrical values measured under nominal operating conditions of cells : 800 W/m² irradiance, air temperature of 20 °C, wind speed of 1 m/s.

NOCT : 44°C (nominal operating cell temperature)

Mechanical data

Length	1,650 mm
Width	992 mm
Depth	35 mm
Weight	18.6 kg

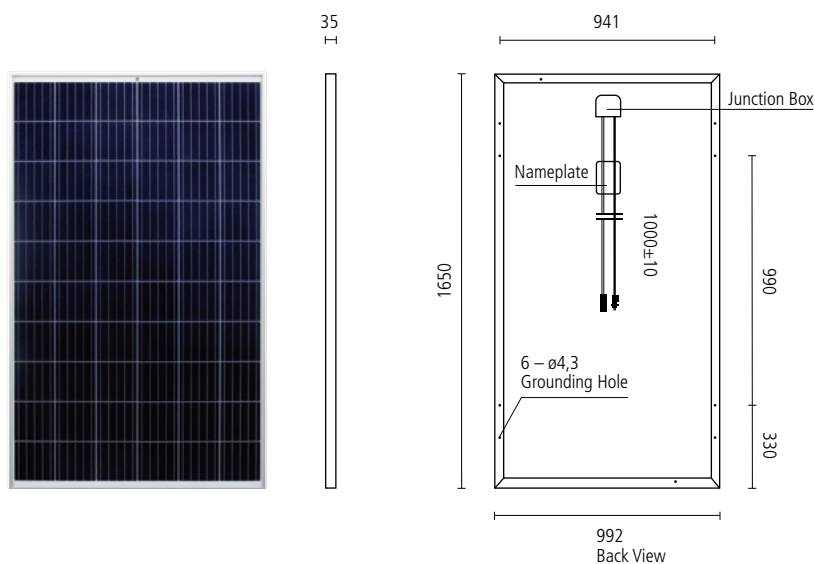
Temperature coefficient

P_{max}	-0.41 %/°C
V_{oc}	-0.32 %/°C
I_{sc}	0.05 %/°C

Limit values

Maximum system voltage	1,000 V_{oc}
Over-current protection	20 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)



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

General data

Cells	polycrystalline Si, 156 mm x 156 mm, 60 cells in series
Front glass	low iron tempered glass, 3.2 mm AR coated
Frame	anodized aluminium alloy, silver
Connection box	PPE+PS resin, IP68 Rating, 3 bypass diodes
Cable	H1Z222-K 4.0 mm ² , length 1,000 mm
Connector	MC4

Packaging data

Modules per pallet	30 pcs
Pallet size (L x W x H)	1.70 m x 1.1 m x 1.18 m
Pallet weight	600 kg



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