

# SHARP

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

The reliable solution (RB)  
**270/275 W**  
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	$\eta_m$	16.8	16.5	%

STC = Standard Test Conditions: irradiance 1,000 W/m<sup>2</sup>, 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/m<sup>2</sup> 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

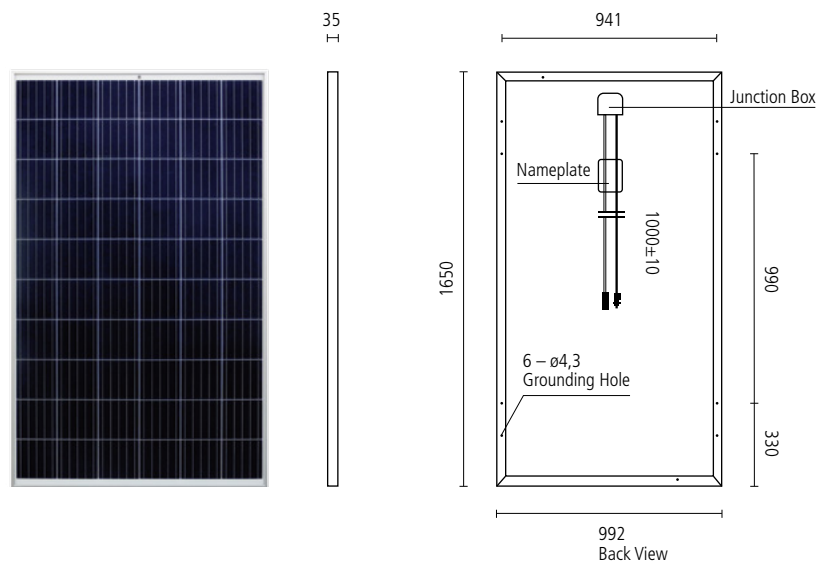
## Temperature coefficient

$P_{max}$	-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	15 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 <sup>2</sup> , 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

 Empower yourself

[www.sharp.eu](http://www.sharp.eu)

**SHARP**

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