

# 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                 | $\eta_m$  | 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  |

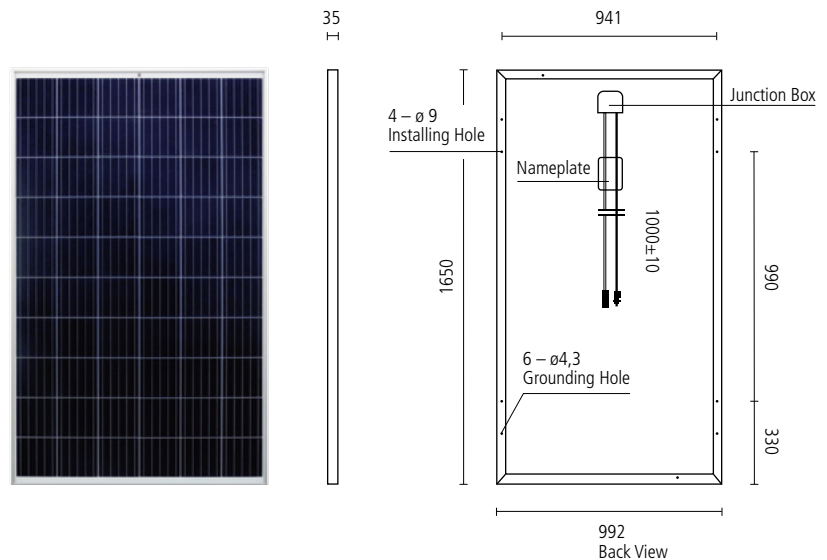
## Temperature coefficient

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

## Limit values

|  |                |
|--|----------------|
| Maximum system voltage                 | 1,000 $V_{DC}$ |
| 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, IP67 Rating, 3 bypass diodes              |
| Cable          | CE cable 4.0 mm, 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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