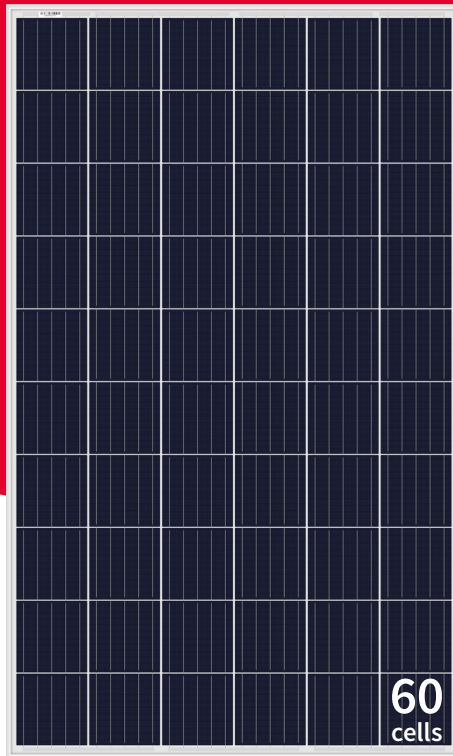


ND-RK270 | ND-RK275

ND-RK Series

270 W | 275 W

The Reliable Solution



Main product features



Guaranteed positive power tolerance (0/+5%)



Polycrystalline silicon photovoltaic modules



Portrait or landscape mounting



Tested and certified
TÜV, IEC/EN61215, IEC/EN61730



Safety class II / CE
Application class A



Fire rating class C



Made in Vietnam



Robust product design
PID resistance test passed
Salt mist test passed (IEC61701)



5 busbar technology
Improved reliability
Higher efficiency
Reduced series resistance

Buy from the solar pioneer



Almost 60 years of solar expertise



Linear power output guarantee



Product guarantee



50 million PV modules installed



Local support team in Europe



Top PV brand award



SHARP
Be Original.

Electrical data (STC)

| | | ND-RK275 | ND-RK270 | |
|-----------------------------------|-----------|----------|----------|-------|
| Maximum power | P_{max} | 275 | 270 | W_p |
| Open-circuit voltage | V_{oc} | 38.5 | 38.3 | V |
| Short-circuit current | I_{sc} | 9.38 | 9.29 | A |
| Voltage at point of maximum power | V_{mpp} | 31.4 | 31.2 | V |
| Current at point of maximum power | I_{mpp} | 8.76 | 8.65 | A |
| Module efficiency | η_m | 16.9 | 16.6 | % |

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 I_{sc} , V_{oc} and 0 to +5% of P_{max} (power measurement tolerance ±3%).

Reduction of efficiency from an irradiance of 1,000 W/m² to 200 W/m² ($T_{module} = 25 °C$) is less than 3%.

Electrical data (NOCT)

| | | ND-RK275 | ND-RK270 | |
|-----------------------------------|-----------|----------|----------|-------|
| Maximum power | P_{max} | 203.33 | 199.91 | W_p |
| Open-circuit voltage | V_{oc} | 35.6 | 35.4 | V |
| Short-circuit current | I_{sc} | 7.58 | 7.51 | A |
| Voltage at point of maximum power | V_{mpp} | 28.8 | 28.6 | V |
| Current at point of maximum power | I_{mpp} | 7.06 | 6.99 | 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 : 45 °C (nominal operating cell temperature).

Mechanical data

| | |
|--------|----------|
| Length | 1,640 mm |
| Width | 992 mm |
| Depth | 35 mm |
| Weight | 18.1 kg |

Temperature coefficient

| | |
|-----------|------------|
| P_{max} | -0.41 %/°C |
| U_{oc} | -0.32 %/°C |
| I_{sc} | 0.055 %/°C |

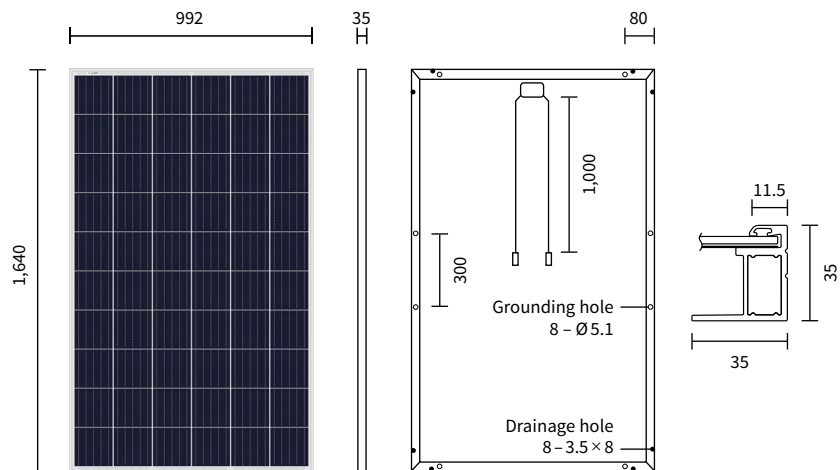
Limit values

| | |
|----------------------------------------|--------------|
| Maximum system voltage | 1,000 VDC |
| 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 |

Packaging data

| | |
|-------------------------|-----------------------------|
| Modules per pallet | 30 pcs |
| Pallet size (L × W × H) | 1.685 m × 1.155 m × 1.123 m |
| Pallet weight | approx. 605 kg |

Dimensions (mm)



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

General data

| | |
|----------------|-------------------------------------------------------------------|
| Cells | polycrystalline Si, 156.75 mm × 156.75 mm, 60 cells in series |
| Front glass | anti-reflective high transmissive low iron tempered glass, 3.2 mm |
| Frame | anodized aluminium alloy, silver |
| Connection box | IP68 rating, 3 bypass diodes |
| Cable | diameter 4.0 mm ² , length 1,000 mm |
| Connector | MC4 (Multi Contact) |

Note: Technical data is subject to change without prior notice. Before using Sharp products, please request the latest data sheets from Sharp. Sharp accepts no responsibility for damage to devices which have been equipped with Sharp products on the basis of unverified information. The specifications may deviate slightly and are not guaranteed. Installation and operating instructions are to be found in the corresponding handbooks, or can be downloaded from www.sharp.eu/solar. This module should not be directly connected to a load.

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