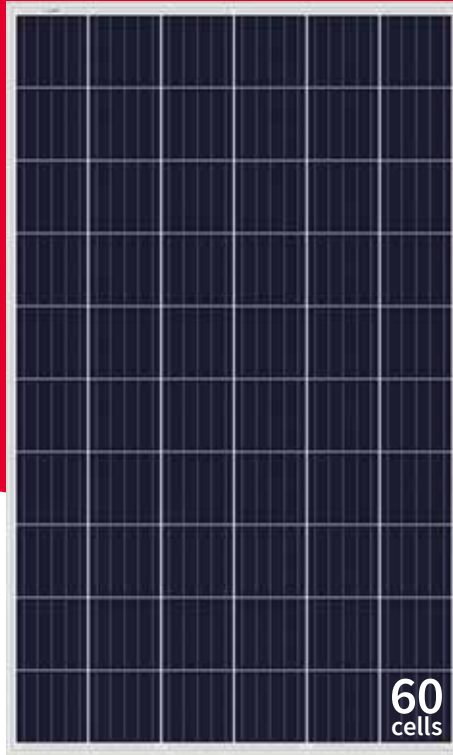


ND-AK270 | ND-AK275

# ND-AK 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



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-AK275	ND-AK270	
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	$\eta_m$	16.9	16.6	%

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

Reduction of efficiency from an irradiance of 1,000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> ( $T_{module} = 25 °C$ ) is less than 3%.

## Electrical data (NOCT)

		ND-AK275	ND-AK270	
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/m<sup>2</sup> 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

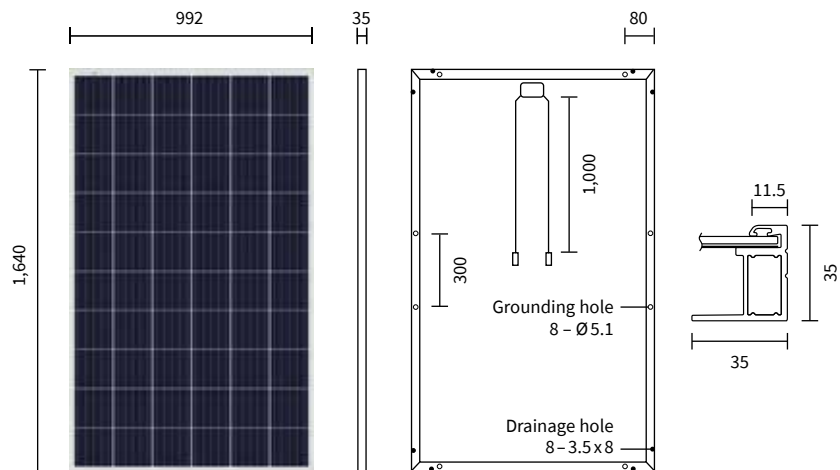
## Limit values

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 <sup>2</sup> , length 1,000 mm
Connector	MC4 (Multi Contact, Stäubli Electrical Connectors AG)

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](http://www.sharp.eu/solar). This module should not be directly connected to a load.

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