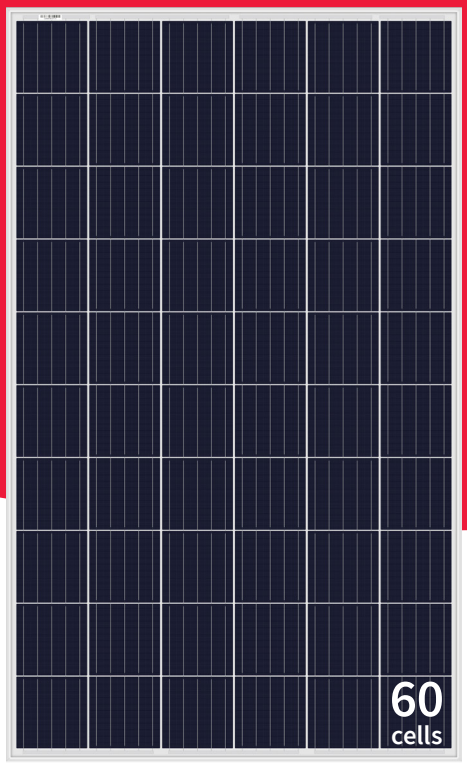
ND-AC275

ND-AC Series

275 W

The Reliable Solution



Powerful product features

- Guaranteed positive power tolerance (0/+5%)
- Polycrystalline silicon photovoltaic modules
- Robust product design
- Tested and certified
  - VDE, IEC/EN61215, IEC/EN61730
  - Safety class II/CE
  - Application class A
  - Fire rating class C
- Portrait or landscape mounting
- 5 busbar technology
  - Improved reliability
  - Higher efficiency
  - Reduced series resistance

Your solar partner for life

- 60 years of solar expertise
- 10 YEARS Product guarantee
- 25 YEARS Linear power output guarantee
- 50 MIO 50 million PV modules installed
- Local support team in Europe
- Top PV brand award

Energy Solutions

SHARP
Be Original.

Electrical data (STC)

		ND-AC275	
Maximum power	P_{max}	275	W_p
Open-circuit voltage	V_{oc}	39.08	V
Short-circuit current	I_{sc}	9.31	A
Voltage at point of maximum power	V_{mpp}	31.37	V
Current at point of maximum power	I_{mpp}	8.77	A
Module efficiency	η_m	16.8	%

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, 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 (NMOT)

		ND-AC275	
Maximum power	P_{max}	204.5	W_p
Open-circuit voltage	V_{oc}	36.19	V
Short-circuit current	I_{sc}	7.05	A
Voltage at point of maximum power	V_{mpp}	30.39	V
Current at point of maximum power	I_{mpp}	6.73	A

Electrical values measured under nominal module operating conditions: 800 W/m² irradiance, air temperature of 20 °C, wind speed of 1 m/s. NMOT: 42.5 °C (nominal module operating conditions).

Mechanical data

Length	1,650 mm
Width	992 mm
Depth	35 mm
Weight	18.5 kg

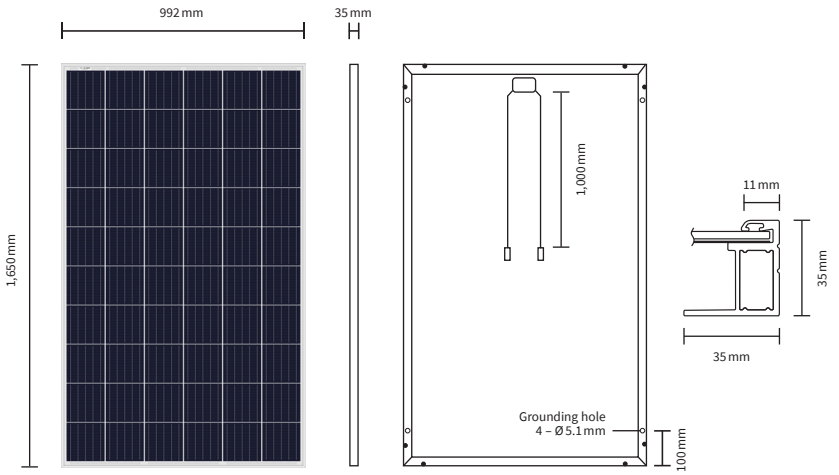
Temperature coefficient

P_{max}	-0.38%/°C
U_{oc}	-0.28%/°C
I_{sc}	0.039%/°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

Dimensions (mm)



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

Packaging data

Modules per pallet	30 pcs
Pallet size (L × W × H)	1.705 m × 1.055 m × 1.250 m
Pallet weight	Approx. 600 kg

General data

Cells	Polycrystalline silicon, 157 mm × 157 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	IP67 rating, 3 bypass diodes
Cable	Diameter 4.0 mm², 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. This module should not be directly connected to a load.

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