SHARP

**ND-AH330H|330W**




The project solution

**330W/1,500V**

Polycrystalline silicon photovoltaic modules



# 12GW installed worldwide

Make Sharp's pioneering solar modules the only choice for your project.

- 55 years of solar expertise
- Guaranteed positive power tolerance (0/+5%)
- Up to 17% module efficiency
  5-busbar cells for higher efficiencies
- **Proven Quality**
  TÜV (IEC/EN 61215, IEC/EN61730)
  Safety class II / CE
  Application class A
  Fire rating class C
- Polycrystalline silicon photovoltaic modules
- 10 YEARS Product guarantee
- 25 YEARS Linear power output guarantee
- 1,500 system voltage

## Electrical data (STC)

| | | ND-AH330H | |
|---|---|---|---|
| Maximum power | $P_{max}$ | 330 | $W_p$ |
| Open-circuit voltage | $V_{oc}$ | 46.2 | V |
| Short-circuit current | $I_{sc}$ | 9.33 | A |
| Voltage at point of maximum power | $V_{mpp}$ | 37.8 | V |
| Current at point of maximum power | $I_{mpp}$ | 8.73 | A |
| Module efficiency | $\eta_m$ | 17.0 | % |

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, Voc and 0 to +5 % of Pmax (power measurement tolerance ±3 %).

## Electrical data (NOCT)

| | | ND-AH330H | |
|---|---|---|---|
| Maximum power | $P_{max}$ | 243.94 | $W_p$ |
| Open-circuit voltage | $V_{oc}$ | 42.7 | V |
| Short-circuit current | $I_{sc}$ | 7.54 | A |
| Voltage at point of maximum power | $V_{mpp}$ | 34.7 | V |
| Current at point of maximum power | $I_{mpp}$ | 7.03 | A |

Module operating temperature at 800 W/m² irradiance, air temperature of 20 °C, wind speed of 1 m/s. NOCT = 45°C.

## Mechanical data

| | |
|---|---|
| Length | 1,956 mm |
| Width | 992 mm |
| Depth | 35 mm |
| Weight | 22.2 kg |

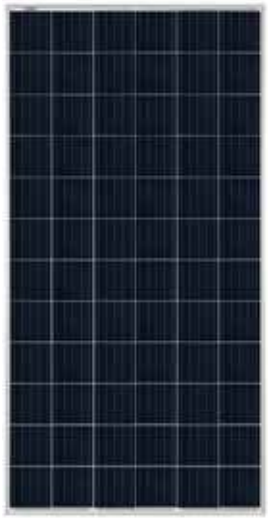
## Temperature coefficient

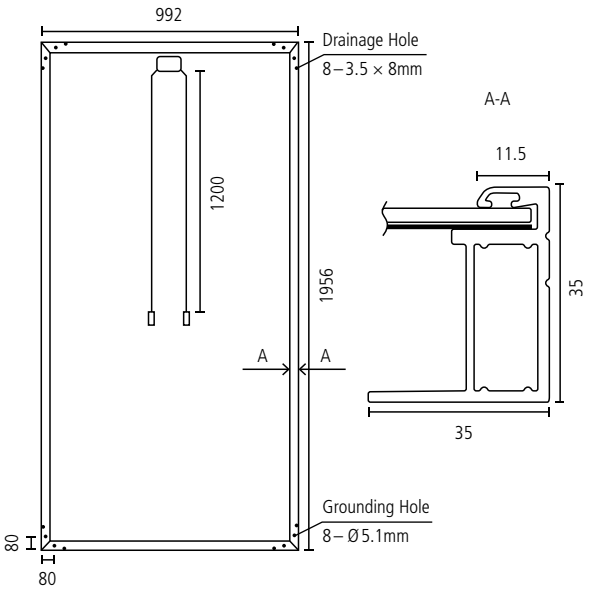
| | |
|---|---|
| $P_{max}$ | -0.41 %/°C |
| $V_{oc}$ | -0.32 %/°C |
| $I_{sc}$ | 0.055 %/°C |

## Limit values

| | |
|---|---|
| Maximum system voltage | 1,500 VDC |
| Over-current protection | 15 A |
| Temperature range | -40 to +85° C |
| Max. mechanical load (snow / wind)* | 2,400 Pa |

## Dimensions (mm)






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

## General data

| | |
|---|---|
| Cells | polycristalline, 156.75 mm x 156.75 mm, 72 cells in series |
| Front glass | low iron tempered glass, 3.2 mm |
| Frame | anodized aluminium alloy, silver |
| Connection box | IP68, 3 bypass diodes |
| Cable | 4.0 mm², length 1,200 mm |
| Connector | PV-XT101.1, SUZHOU XTONG PHOTOVOLTAIC TECHNOLOGY Co. Ltd |

## Packaging data

| | |
|---|---|
| Modules per pallet | 30 pcs |
| Pallet size (L × W × H) | 1,995 × 1,150 × 1,123 mm |
| Pallet weight | 740 kg |

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**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.