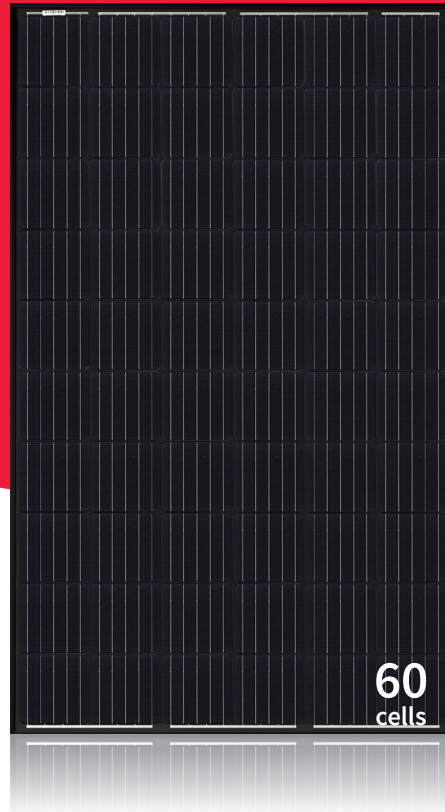


NU-AC300B

# NU-AC Series

300 W Black

The Design Solution



## Powerful product features



PERC technology  
High module efficiency 18.3%



Guaranteed positive power  
tolerance (0/+5%)



5 busbar technology  
Improved reliability  
Higher efficiency  
Reduced series resistance



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



Safety class II, CE  
Application class A



Fire rating class C  
MCS accredited product



Monocrystalline silicon  
photovoltaic modules



Portrait or landscape  
mounting



Robust product design  
PID resistance test passed

## Your solar partner for life



60 years of solar expertise



Linear power output guarantee



Product guarantee



Local support team in Europe



50 million PV modules installed



Top PV brand award



Energy Solutions

**SHARP**  
Be Original.

\*Applicable for modules installed within the EU and additional listed countries.  
Please check the guarantee conditions for your area before purchasing.

## Electrical data (STC)

| NU-AC300B                         |           |       |       |
|-----------------------------------|-----------|-------|-------|
| Maximum power                     | $P_{max}$ | 300   | $W_p$ |
| Open-circuit voltage              | $V_{oc}$  | 40.03 | V     |
| Short-circuit current             | $I_{sc}$  | 9.71  | A     |
| Voltage at point of maximum power | $V_{mpp}$ | 32.68 | V     |
| Current at point of maximum power | $I_{mpp}$ | 9.18  | A     |
| Module efficiency                 | $\eta_m$  | 18.3  | %     |

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 change 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 (NMOT)

| NU-AC300B                         |           |        |       |
|-----------------------------------|-----------|--------|-------|
| Maximum power                     | $P_{max}$ | 224.13 | $W_p$ |
| Open-circuit voltage              | $V_{oc}$  | 37.94  | V     |
| Short-circuit current             | $I_{sc}$  | 7.87   | A     |
| Voltage at point of maximum power | $V_{mpp}$ | 30.50  | V     |
| Current at point of maximum power | $I_{mpp}$ | 7.35   | A     |

NMOT = Nominal Module Operating Temperature: 45 °C, irradiance 800 W/m<sup>2</sup>, air temperature of 20 °C, wind speed of 1 m/s.

## Mechanical data

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

## Temperature coefficient

|           |            |
|-----------|------------|
| $P_{max}$ | -0.375%/°C |
| $V_{oc}$  | -0.273%/°C |
| $I_{sc}$  | 0.037%/°C  |

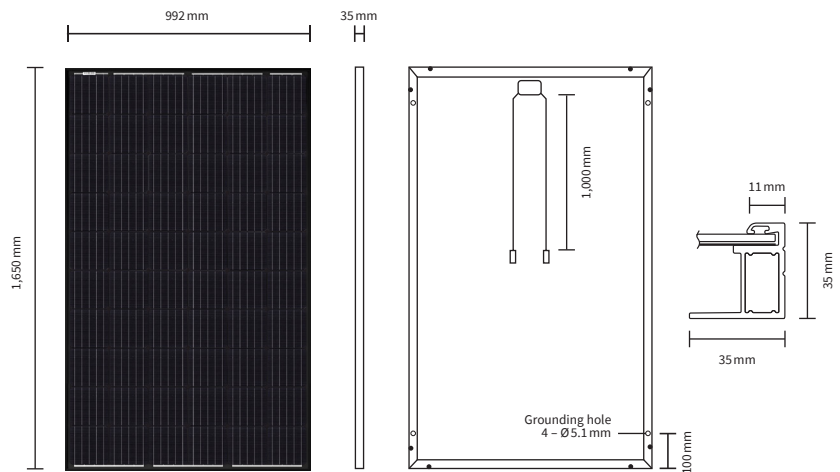
## Limit values

|  |              |
|--|--------------|
| 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) | 1.70 m × 1.10 m × 1.15 m |
| Pallet weight           | Approx. 605 kg           |

## Dimensions (mm)



\*Please refer to SHARP's installation manual for details.

## General data

|                |   |
|----------------|---|
| Cells          | Monocrystalline 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, black                                   |
| Backsheet      | Black   |
| Connection box | IP67 rating, 3 bypass diodes                                      |
| Cable          | Ø 4.0 mm <sup>2</sup> , length 1,000 mm                           |
| Connector      | MC4 (Multi Contact, Stäubli)                                      |

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. This module should not be directly connected to a load.