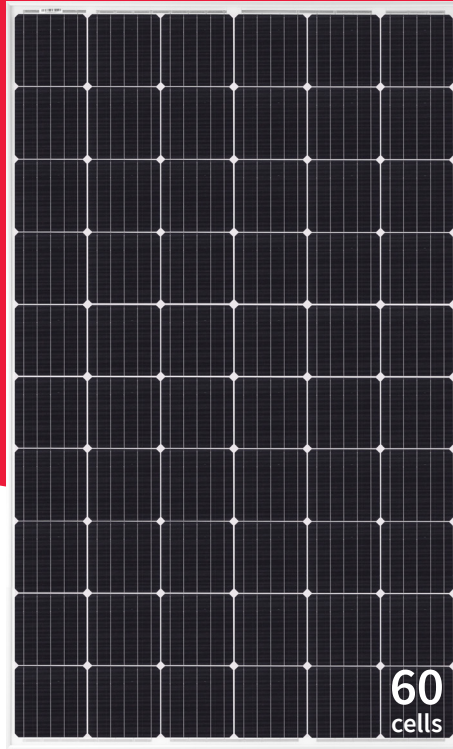


NU-AC310

# NU-AC Series

310 W

The High Performer



## Powerful product features



Guaranteed positive power tolerance (0/+5%)



Monocrystalline 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  
MCS accredited product



PERC technology  
High module efficiency 18.9%



Portrait or landscape mounting



5 busbar technology  
Improved reliability  
Higher efficiency  
Reduced series resistance

## 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-AC310			
Maximum power	$P_{max}$	310	$W_p$
Open-circuit voltage	$V_{oc}$	40.82	V
Short-circuit current	$I_{sc}$	9.89	A
Voltage at point of maximum power	$V_{mpp}$	33.18	V
Current at point of maximum power	$I_{mpp}$	9.35	A
Module efficiency	$\eta_m$	18.9	%

STC = Standard Test Conditions: irradiance 1,000 W/m<sup>2</sup>, AM 1.5, cell temperature 25 °C.

Rated electrical characteristics are within  $\pm 10\%$  of the indicated values of  $I_{sc}$ ,  $V_{oc}$  and 0 to +5% of  $P_{max}$  (power measurement tolerance  $\pm 3\%$ ).

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

## Electrical data (NMOT)

NU-AC310			
Maximum power	$P_{max}$	226.1	$W_p$
Open-circuit voltage	$V_{oc}$	36.29	V
Short-circuit current	$I_{sc}$	7.75	A
Voltage at point of maximum power	$V_{mpp}$	30.64	V
Current at point of maximum power	$I_{mpp}$	7.38	A

Electrical values measured under nominal module operating conditions: 800 W/m<sup>2</sup> irradiance, air temperature of 20 °C, wind speed of 1 m/s. NMOT: 45 °C (nominal module operating conditions).

## Mechanical data

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

## Temperature coefficient

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

## Limit values

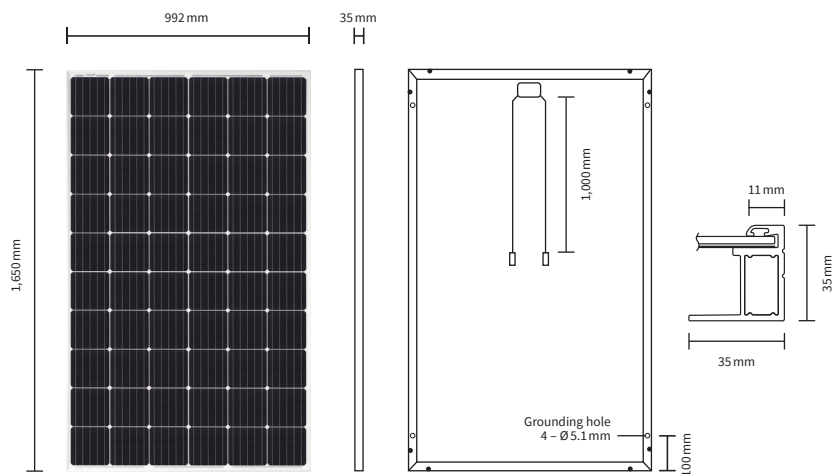
Maximum system voltage	1,000 VDC
Over-current protection	15 A
Temperature range	-40 to 85 °C
Max. mechanical load (snow/wind)	2,400 Pa

Tested snow load (IEC61215 test pass\*) 5,400 Pa

## Packaging data

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

## Dimensions (mm)



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

## General data

Cells	Monocrystalline silicon, 157 mm x 157 mm, 60 cells in series
Front glass	Anti-reflective high transmissive low iron tempered glass, 3.2 mm
Frame	Anodized aluminium alloy, silver
Backsheet	White
Connection box	IP67 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.