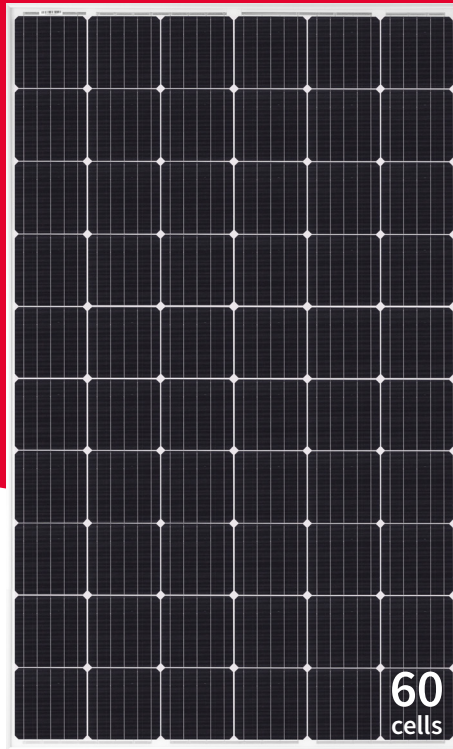


NU-AC310

# 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



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



50 million PV modules installed



Local support team in Europe



Top PV brand award



**SHARP**  
Be Original.

## 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 ±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 (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

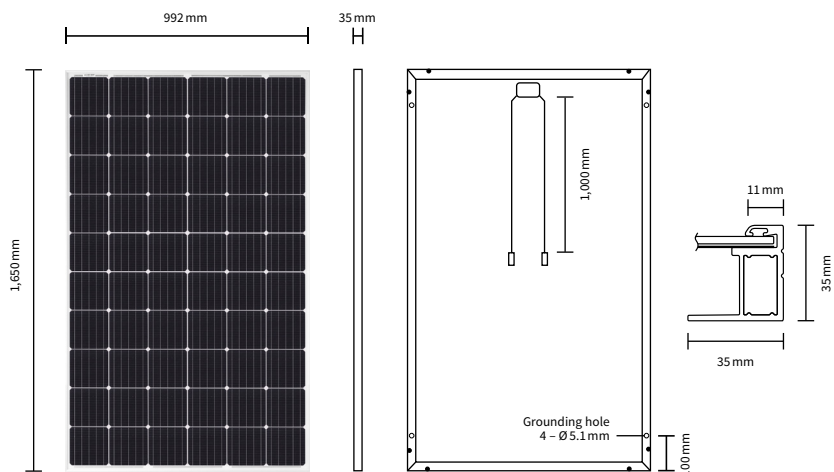
## Limit values

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 Si, 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)

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