

# SHARP

NU-RJ280 | 280 W  
NU-RJ285 | 285 W

The high performer (RJ)  
**280/285 W**  
Mono



## For your independence

Take advantage of solar panels + battery solutions for maximum independence



55 years of solar expertise



Guaranteed positive power tolerance (0/+5 %)



Top PV brand award



Proven Quality  
TÜV, IEC/EN61215, IEC/EN61730  
Safety class II/CE  
Application class A  
DIN EN 13501-1 (class E)



Monocrystalline silicon photovoltaic modules



Made in Germany



10 YEARS Product guarantee



25 YEARS Linear power output guarantee



Robust product design  
Ammonia test passed (DLG focus test)  
Salt mist test passed (IEC61701)

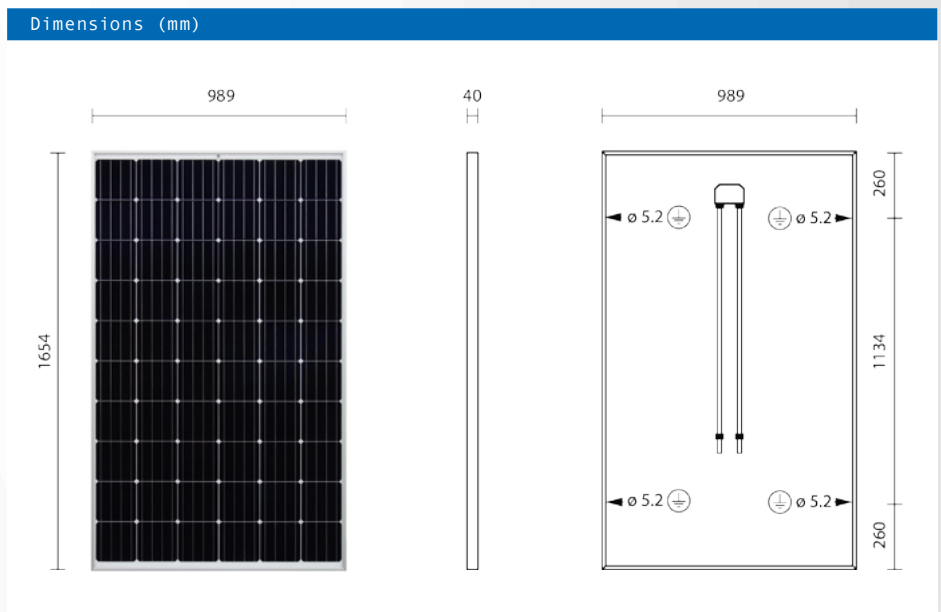
Electrical data (STC)				
		NU-RJ285	NU-RJ280	
Maximum power	$P_{max}$	285	280	$W_p$
Open-circuit voltage	$V_{oc}$	38.25	38.15	V
Short-circuit current	$I_{sc}$	9.60	9.50	A
Voltage at point of maximum power	$V_{mpp}$	31.65	31.55	V
Current at point of maximum power	$I_{mpp}$	9.09	8.98	A
Module efficiency	$\eta_m$	17.4	17.1	%

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 Isc, Voc and 0 to +5% of Pmax (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> (Tmodule = 25°C) is less than 4%.

Electrical data (NOCT)				
		NU-RJ285	NU-RJ280	
Maximum power	$P_{max}$	212.2	208.9	$W_p$
Open-circuit voltage	$V_{oc}$	35.35	35.26	V
Short-circuit current	$I_{sc}$	7.76	7.68	A
Voltage at point of maximum power	$V_{mpp}$	29.11	29.02	V
Current at point of maximum power	$I_{mpp}$	7.29	7.20	A

NOCT: Module operating temperature at 800 W/m<sup>2</sup> irradiance, air temperature of 20°C, wind speed of 1 m/s. NOCT = 46°C.

Mechanical data	
Length	1,654 mm
Width	989 mm
Depth	40 mm
Weight	18.2 kg



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

Temperature coefficient	
$P_{max}$	-0.442 %/°C
$V_{oc}$	-0.329 %/°C
$I_{sc}$	0.042 %/°C

Limit values	
Maximum system voltage	1,000 V DC
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

General data	
Cells	monocrystalline, 156 mm × 156 mm, 60 cells in series
Front glass	low iron tempered glass, 3.2 mm
Frame	anodized aluminium alloy, silver
Connection box	PPE+PS resin, IP67 Rating, 90 × 72 × 16 mm, 3 bypass diodes
Cable	PV1-f cable 4.0 mm, length 1,000 mm
Connector	MC4

Packaging data	
Modules per pallet	22 pcs
Pallet size (L × W × H)	1.70 m × 1.03 m × 1.25 m
Pallet weight	420 kg

 **Empower yourself**

[www.sharp.eu](http://www.sharp.eu)

**SHARP**

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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](http://www.sharp.eu/solar). This module should not be directly connected to a load.