

# SHARP

NU-RD280 | 280 W  
NU-RD285 | 285 W  
Monocrystalline silicon photovoltaic modules

**280/285 W**  
The elegant  
solution



## For your independence

Take advantage of solar panels + battery solutions  
for maximum independence



50 years of solar expertise



**Proven Quality**

VDE, IEC/EN 61215, IEC/EN61730  
Safety Class II / CE  
MCS accredited product  
ISO 9001 / ISO 14001



Top PV brand award



Made in Germany



Guaranteed positive  
power tolerance  
(0/+5 Wp)



Monocrystalline  
technology

10  
YEARS

Product guarantee

25  
YEARS

Linear performance  
guarantee



Up to 17.3 % module  
efficiency



Robust product design

### Electrical data (at STC)

		NU-RD285	NU-RD280	
Maximum power	$P_{max}$	285	280	$W_p$
Open-circuit voltage	$U_{oc}$	39.2	39.2	V
Short-circuit current	$I_{sc}$	9.73	9.67	A
Voltage at point of maximum power	$U_{mpp}$	31.3	31.2	V
Current at point of maximum power	$I_{mpp}$	9.1	8.97	A
Module efficiency	$\eta_m$	17.3	17	%

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 W of  $P_{max}$  (power measurement tolerance ±3 %).

### Electrical data (at NOCT)

		NU-RD285	NU-RD280	
Maximum power	$P_{max}$	207	204	$W_p$
Open-circuit voltage	$U_{oc}$	36	35.9	V
Short-circuit current	$I_{sc}$	7.88	7.83	A
Voltage at point of maximum power	$U_{mpp}$	28.3	28.2	V
Module efficiency	$\eta_m$	15.8	15.5	%

NOCT: Module operating temperature at 800 W/m<sup>2</sup> irradiance, air temperature of 20 °C, AM 1.5, wind speed of 1 m/s. NOCT: 49°C

### Limit values

Maximum system voltage	1,000 V
Over-current protection	20 A
Temperature range	-40 to 85° C
Maximum mechanical load	2,400 Pa

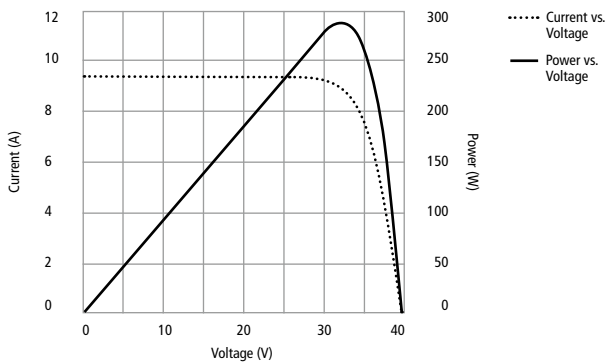
### Mechanical data

Length	1,660 mm
Width	990 mm
Depth	50 mm
Weight	20 kg

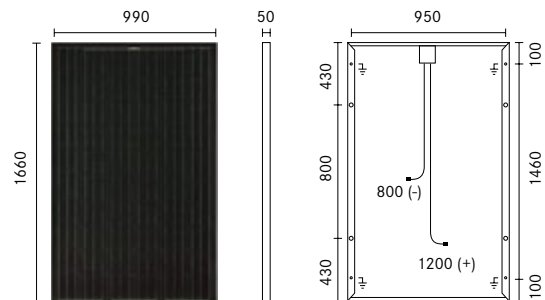
### Temperature coefficient

$P_{max}$	-0.40 % / °C
$U_{oc}$	-0.29 % / °C
$I_{sc}$	0.05 % / °C

### Characteristic curves NU-RD285



### Dimensions (mm)



### 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, black
Connection box	PPO/PA, black / Contact Material: Cu, tin plated
Cable	CE cable, length 1,200 mm(+), 800 mm (-)
Connector	MC4

### Packaging data

Modules per palette	22 pcs
Palette size (L × W × H)	1.2 m × 1.0 m × 1.85 m
Palette weight	approx. 490 kg
Modules packed in one carton	22 pcs



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

**SHARP**

### Contact Installer

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