

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

IN
↓
OUT
↑

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	η_m	17.3	17	%

STC = Standard Test Conditions: irradiance 1,000 W/m², 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	η_m	15.8	15.5	%

NOCT: Module operating temperature at 800 W/m² 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

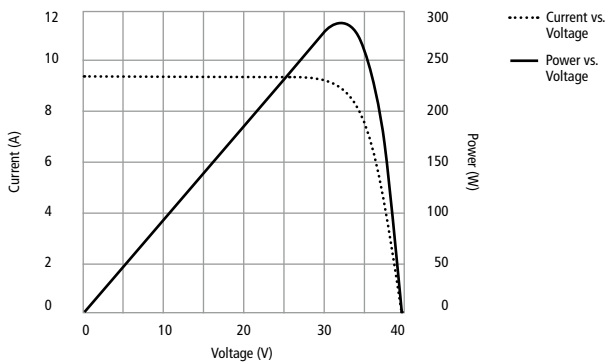
Mechanical data

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

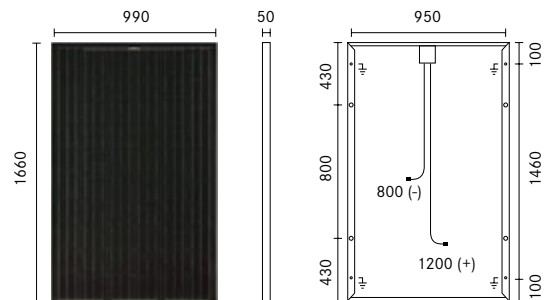
Temperature coefficient

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



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SHARP

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