

SHARP

NU-RC290 | 290 W
Monocrystalline silicon photovoltaic modules

290 W
The high performer



For your independence

Take advantage of solar panels + battery solutions for maximum independence



50 years of solar expertise



Guaranteed positive power tolerance (0/+5 Wp)



Made in Germany



Top PV brand award



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



Monocrystalline technology



Product guarantee



Linear performance guarantee



17.6 % module efficiency



Robust product design

Electrical data (at STC)

NU-RC290

Maximum power	P_{max}	290	W_p
Open-circuit voltage	U_{oc}	39.3	V
Short-circuit current	I_{sc}	9.8	A
Voltage at point of maximum power	U_{mpp}	31.3	V
Current at point of maximum power	I_{mpp}	9.25	A
Module efficiency	η_m	17.6	%

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-RC290

Maximum power	P_{max}	212	W_p
Open-circuit voltage	U_{oc}	36.2	V
Short-circuit current	I_{sc}	7.93	A
Voltage at point of maximum power	U_{mpp}	28.4	V
Module efficiency	η_m	16.1	%

NOCT: Module operating temperature at 800 W/m² irradiance, air temperature of 20 °C, AM 1.5, wind speed of 1 m/s. NOCT: 48°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

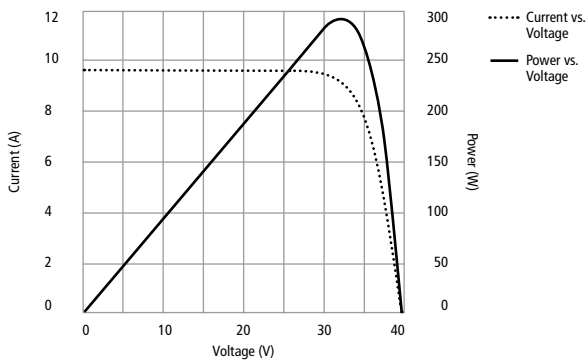
Mechanical data

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

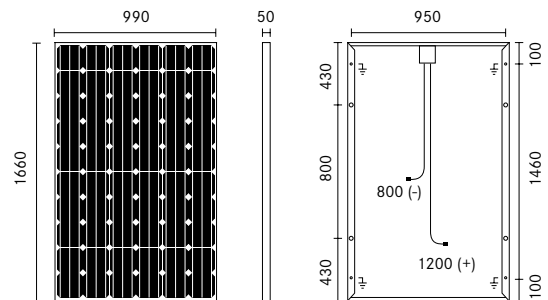
Temperature coefficient

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

Characteristic curves NU-RC290



Dimensions



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	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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