

# 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 %)



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

\* In order to validate the guarantee, the modules have to be registered under [www.brandaddedvalue.net](http://www.brandaddedvalue.net) within a period of 12 weeks after delivery.

## 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	$\eta_m$	17.6	%

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  $I_{sc}$ ,  $U_{oc}$ , and 0 to +5 % 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	$\eta_m$	16.1	%

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: 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

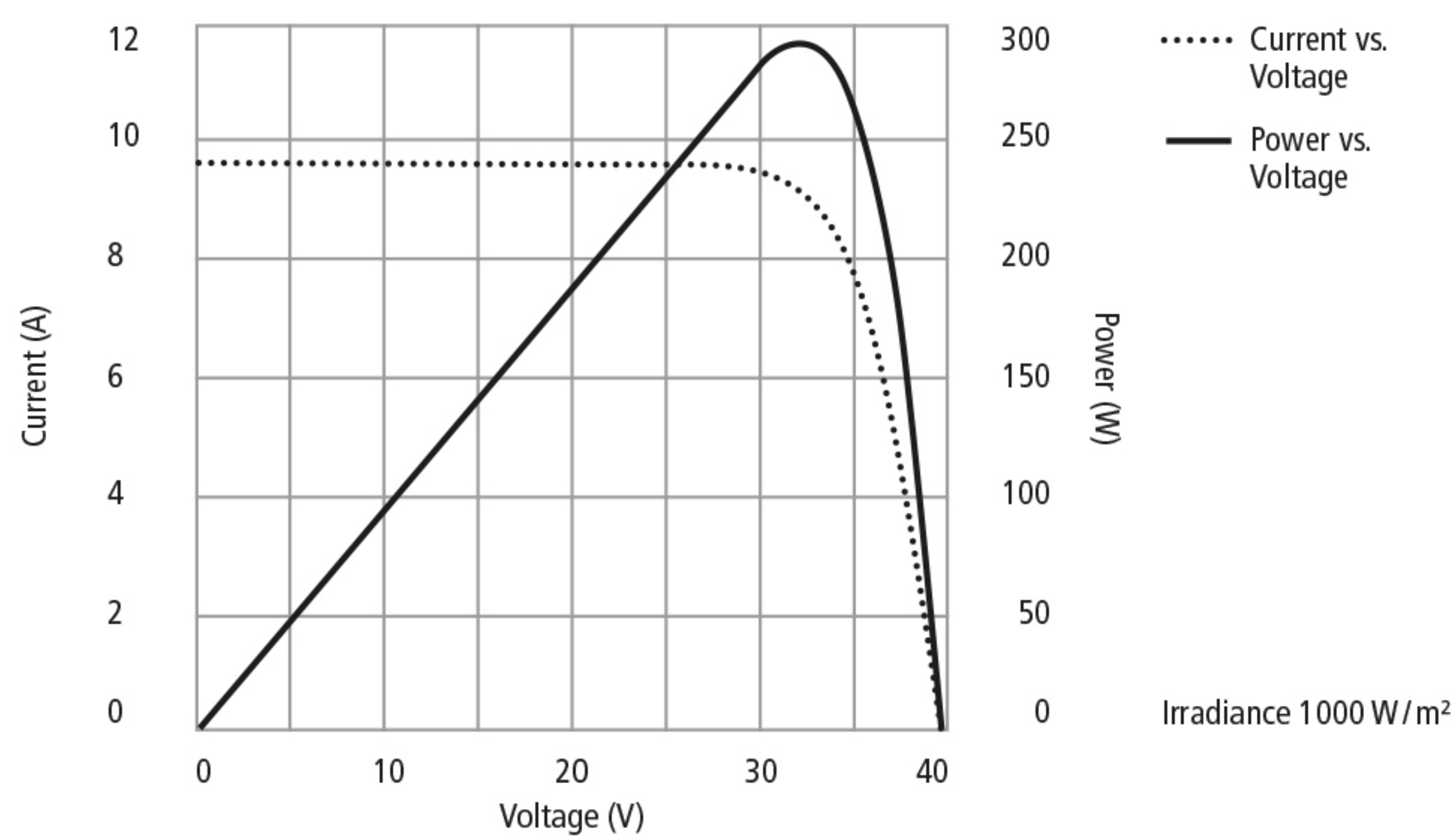
## Mechanical data

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

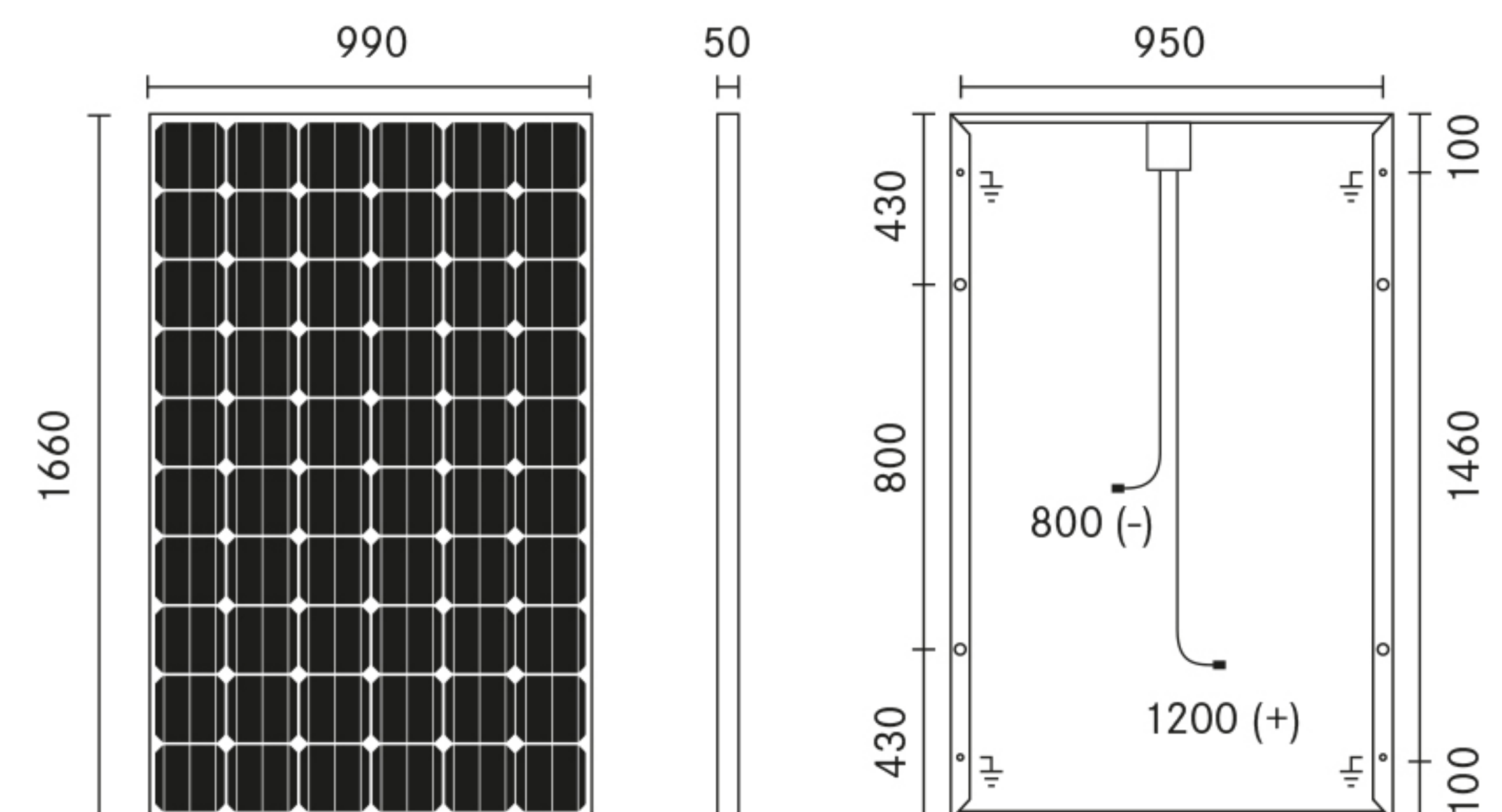
## Temperature coefficient

$P_{max}$	-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	PPE/PPO resin, IP65 Rating, 109 x 110 x 13.7 mm, 3 bypass diodes
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**

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