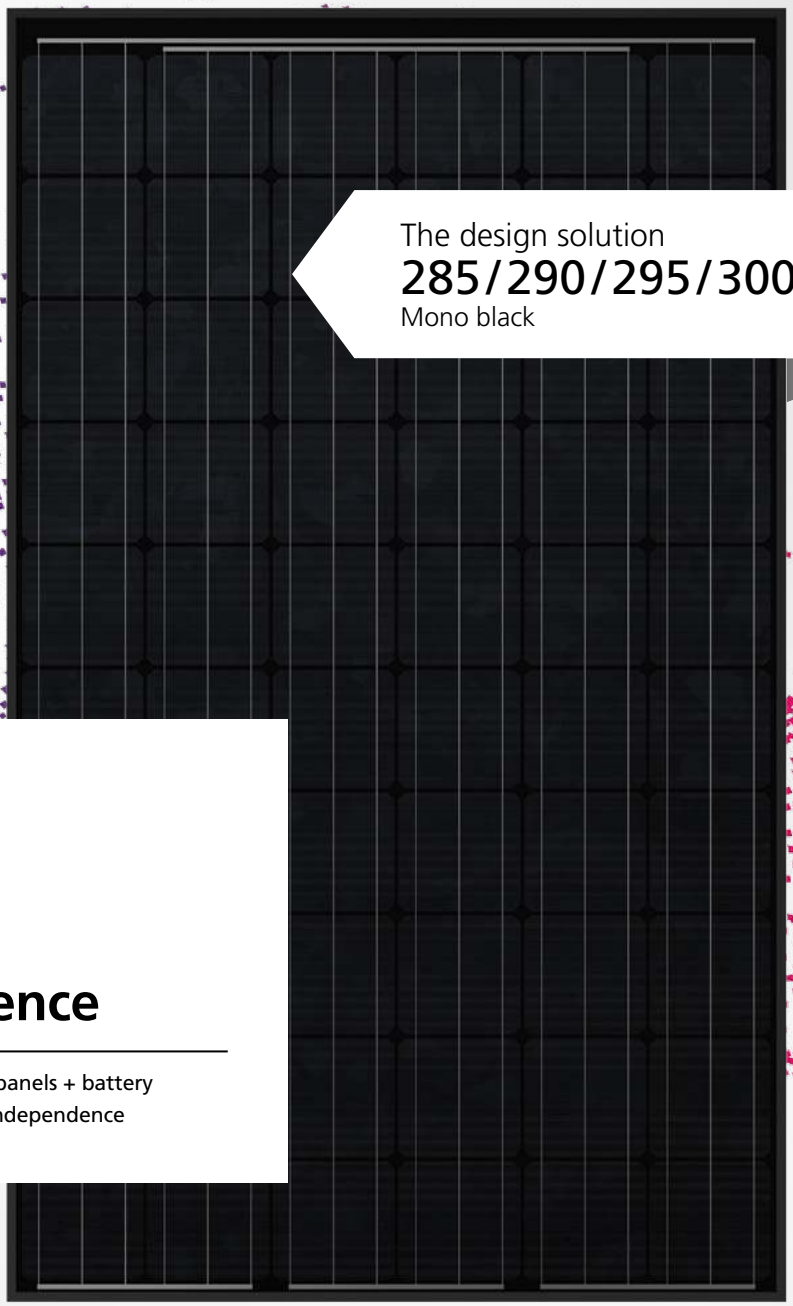
SHARP

NU-RD285 | 285 W
NU-RD290 | 290 W
NU-RD295 | 295 W
NU-RD300 | 300 W



The design solution
285/290/295/300 W
Mono black

For your independence

Take advantage of solar panels + battery solutions for maximum independence

- 55 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
- Guaranteed positive power tolerance (0/+5 %)
- Monocrystalline silicon photovoltaic modules
- Robust product design (PID resistance)
- 10 YEARS Product guarantee
- 25 YEARS Linear power output guarantee
- IN / OUT Up to 18.3 % module efficiency
- Made in Germany

Electrical data (STC)

		NU-RD300	NU-RD295	NU-RD290	NU-RD285	
Maximum power	P_{max}	300	295	290	285	W_p
Open-circuit voltage	V_{oc}	39.4	39.3	39.3	39.2	V
Short-circuit current	I_{sc}	9.97	9.87	9.80	9.73	A
Voltage at point of maximum power	V_{mpp}	31.2	31.3	31.3	31.3	V
Current at point of maximum power	I_{mpp}	9.63	9.42	9.25	9.1	A
Module efficiency	η_m	18.3	18.0	17.6	17.3	%

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 Isc, Voc and 0 to +5 % of Pmax (power measurement tolerance ±3 %).
Reduction of efficiency from an irradiance of 1,000 W/m² to 200 W/m² (Tmodule = 25 °C) is less than 2 %.

Electrical data (NOCT)

		NU-RD300	NU-RD295	NU-RD290	NU-RD285	
Maximum power	P_{max}	219	215	211	207	W_p
Open-circuit voltage	V_{oc}	36.3	36.2	36.0	36.0	V
Short-circuit current	I_{sc}	8.07	7.99	7.93	7.88	A
Voltage at point of maximum power	V_{mpp}	28.5	28.4	28.3	28.3	V
Current at point of maximum power	I_{mpp}	7.72	7.59	7.45	7.33	A
Module efficiency	η_m	16.7	16.4	16.0	15.7	%

Electrical values measured under nominal operating conditions of cells : 800 W/m² irradiance, air temperature of 20 °C, wind speed of 1 m/s. NOCT : 49 °C (nominal operating cell temperature).

Temperature coefficient

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

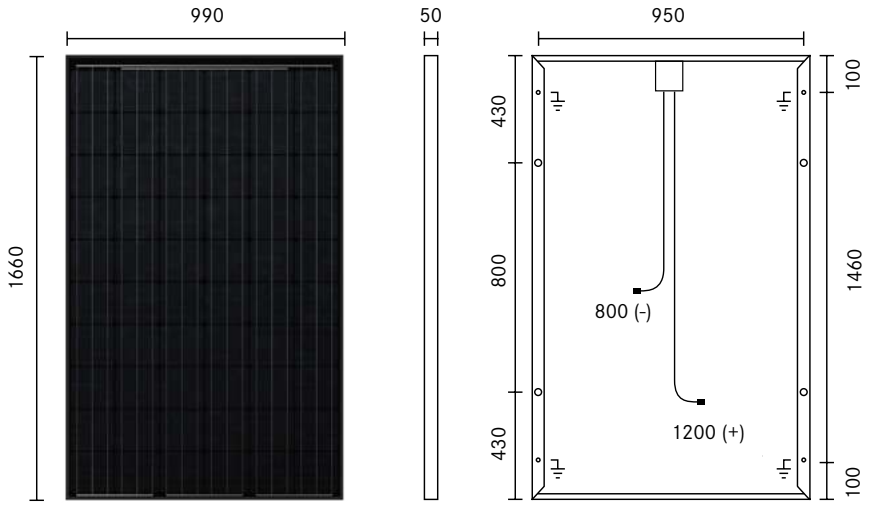
Mechanical data

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

Limit values

Maximum system voltage	1,000 V
Over-current protection	20 A
Temperature range	-40 to 85° C
Max. mechanical load (snow / wind)	2,400 Pa
Tested snow load (IEC61215 test pass*)	5,400 Pa

Dimensions (mm)



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

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	PPE/PPO resin, IP67 Rating, 148 x 123 x 27 mm, 3 bypass diodes
Cable	CE cable, length 1,200 mm (+), 800 mm (-)
Connector	MC4

Packaging data

Modules per pallet	22 pcs
Pallet size (L × W × H)	1.2 m × 1.0 m × 1.85 m
Pallet weight	approx. 477 kg
Modules packed in one carton	22 pcs

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SHARP

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Spain & Portugal SolarInfo.es@sharp.eu, **United Kingdom** SolarInfo.uk@sharp.eu, **Other countries** SolarInfo.Europe@sharp.eu

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.** This module should not be directly connected to a load.

NURD30_08/16EN