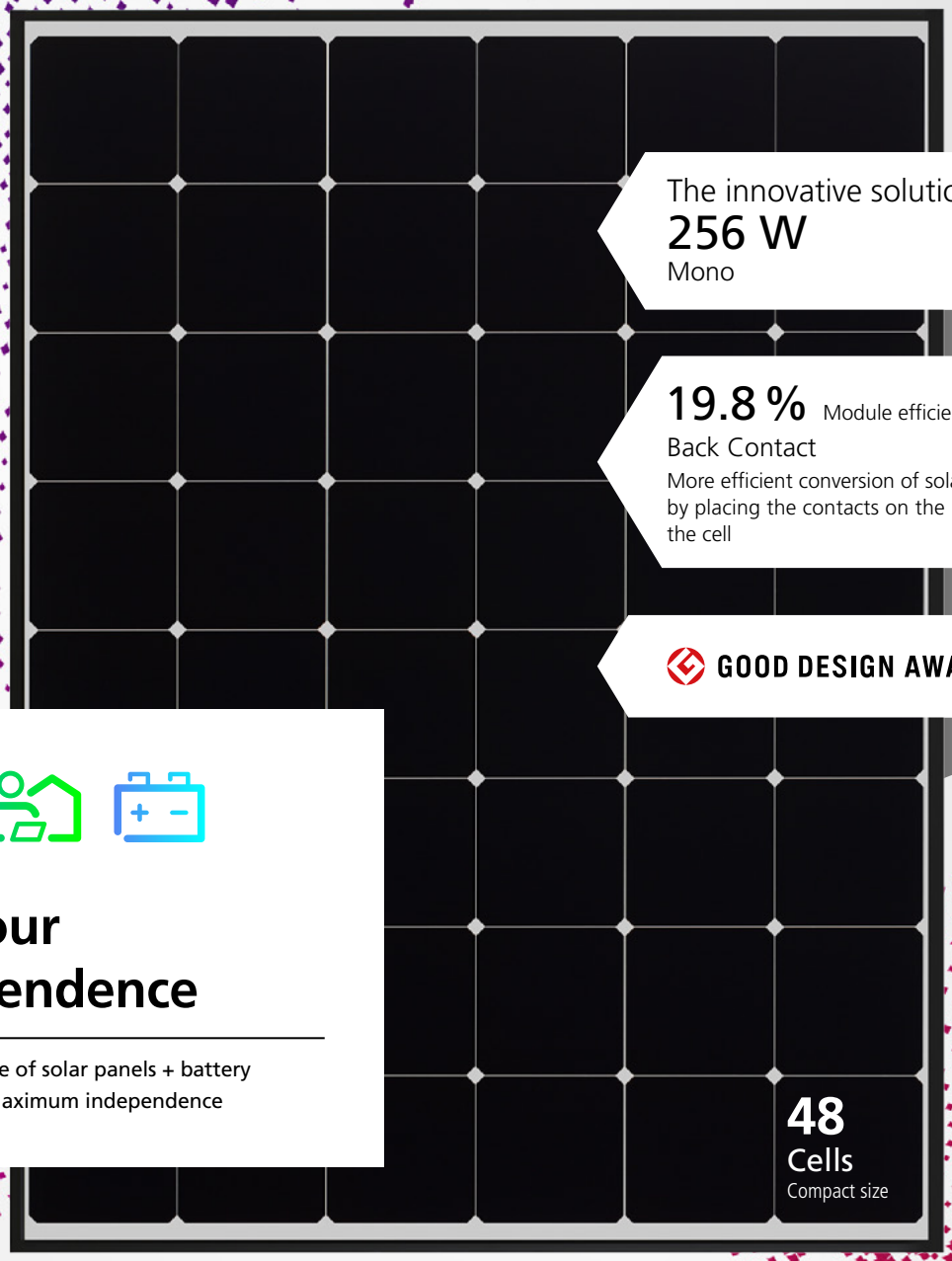
SHARP

NQR256A | 256 W

Iris Hellas
Technology Innovations



The innovative solution
256 W
Mono

19.8 % Module efficiency
Back Contact
More efficient conversion of solar radiation by placing the contacts on the back of the cell

GOOD DESIGN AWARD 2015

48
Cells
Compact size

For your independence

Take advantage of solar panels + battery solutions for maximum independence

- 55 years of solar expertise
- 19.8 % module efficiency
- Guaranteed positive power tolerance (0/+5 %)
- Robust product design
- Top PV brand award
- Proven Quality
  VDE (IEC/EN 61215, IEC/EN61730)
  Safety Class II / CE
  Application class A
  DIN EN 13501-1 (class E)
- Portrait or landscape mounting
- Monocrystalline silicon photovoltaic modules
  (Back Contact)
- 10 YEARS Product guarantee
- 25 YEARS Linear power output guarantee
- Made in Japan

Electrical data (STC)

		NQ-R256A	
Maximum power	P_{max}	256	W_p
Open-circuit voltage	V_{oc}	32.49	V
Short-circuit current	I_{sc}	9.95	A
Voltage at point of maximum power	V_{mpp}	27.53	V
Current at point of maximum power	I_{mpp}	9.3	A
Module efficiency	η_m	19.82	%

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 5 %.

Electrical data (NOCT)

		NQ-R256A	
Maximum power	P_{max}	182.3	W_p
Open-circuit voltage	V_{oc}	31.5	V
Short-circuit current	I_{sc}	8.16	A
Voltage at point of maximum power	V_{mpp}	24.8	V

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 : 47.9 °C (nominal operating cell temperature).

Mechanical data

Length	1,318 mm
Width	980 mm
Depth	46 mm
Weight	17 kg

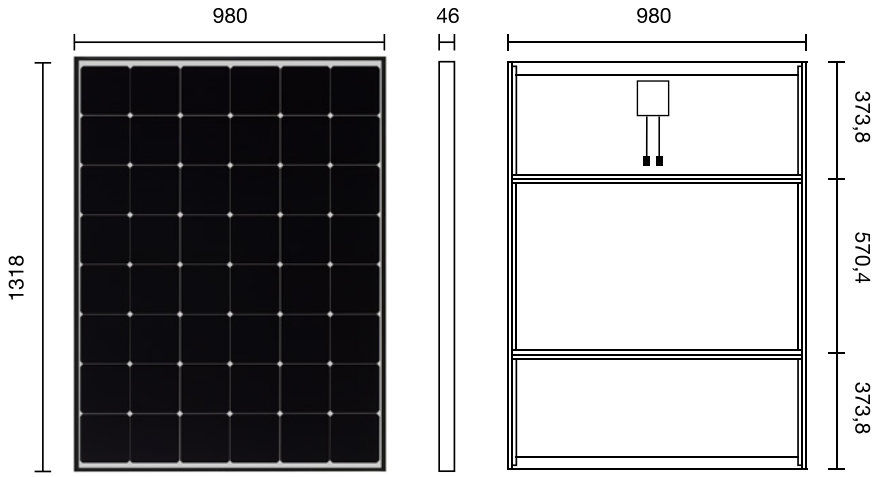
Temperature coefficient

P_{max}	-0.377 %/°C
U_{oc}	-0.095 V/°C
I_{sc}	0.053 %/°C

Limit values

Maximum system voltage	600 VDC
Over-current protection	15 A
Temperature range	-40 to 90° 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 Si, 157 mm × 157 mm, back contact, 48 cells in series
Front glass	anti-reflective high transmissive low iron tempered glass, 3 mm
Frame	anodized aluminium alloy, black
Connection box	PPE/PPO resin, IP65 rating, 110 x 109 x 17 mm, 3 bypass diodes
Cable	PV1-F cable 4.0 mm, length 1,000 mm
Connector	SMK, type PV-03 series, IP67 rating To extend the module connection leads only use SMK connector from the same series or MultiContactAG MC4 connector (PV-KST04/PV-KBT04)

Packaging data

Modules per pallet	26 pcs
Pallet size (L × W × H)	1.023 m × 1.341 m × 1.6 m
Pallet weight	approx. 490 kg

Empower yourself

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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.

NQR256_11/16EN