

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**



For your independence

Take advantage of solar panels + battery solutions for maximum independence

48
Cells
Compact size



55 years of solar expertise



Top PV brand award



Monocrystalline silicon photovoltaic modules (Back Contact)



19.8 % module efficiency



Proven Quality
VDE (IEC/EN 61215, IEC/EN61730)
Safety Class II / CE
Application class A
DIN EN 13501-1 (class E)



10 YEARS Product guarantee



Guaranteed positive power tolerance (0/+5 %)



25 YEARS Linear power output guarantee



Robust product design



Portrait or landscape mounting



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 1,000W/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% of P_{max} (power measurement tolerance ±3%).

Reduction of efficiency from an irradiance of 1,000W/m² to 200W/m² ($T_{module} = 25^\circ C$) 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 : 800W/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

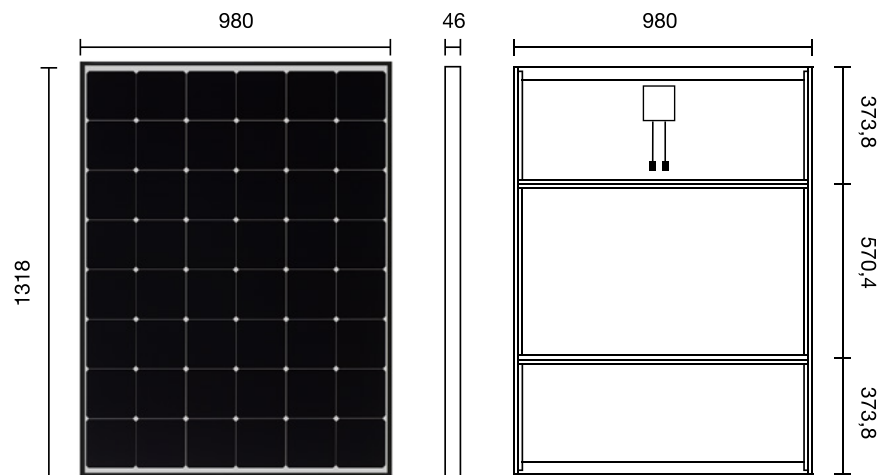
P_{max}	-0.377 %/°C
U_{oc}	-0.095 V/°C
I_{sc}	0.053 %/°C

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



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SHARP

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