For your independence
Take advantage of solar panels + battery solutions for maximum independence

55 years of solar expertise
19.8 % module efficiency
Made in Japan
Guaranteed positive power tolerance (0/+5 %)

The innovative solution
256 W
Mono | Back Contact

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

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

Monocrystalline silicon photovoltaic modules
(Back Contact)

Product guarantee
Linear power output guarantee
Robust product design
Top PV brand award
**Electrical data (STC)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>NQ-R256A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum power $P_{max}$</td>
<td>256 Wp</td>
</tr>
<tr>
<td>Open-circuit voltage $V_{oc}$</td>
<td>32.49 V</td>
</tr>
<tr>
<td>Short-circuit current $I_{sc}$</td>
<td>9.95 A</td>
</tr>
<tr>
<td>Voltage at point of maximum power $V_{mp}$</td>
<td>27.53 V</td>
</tr>
<tr>
<td>Current at point of maximum power $I_{mp}$</td>
<td>9.3 A</td>
</tr>
<tr>
<td>Module efficiency $\eta_{m}$</td>
<td>19.82 %</td>
</tr>
</tbody>
</table>

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 $V_{oc}$, $V_{mp}$ and $I_{mp}$ and to ±5 % of $P_{max}$ (power measurement tolerance ±3 %).

STC = Standard Test Conditions: irradiance 1,000 W/m², AM 1.5, cell temperature 25°C.

Reduction of efficiency from an irradiance of 1,000 W/m² to 200 W/m² (Tmodule = 25°C) is less than 5 %.

**Mechanical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1,318 mm</td>
</tr>
<tr>
<td>Width</td>
<td>980 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>46 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>17 kg</td>
</tr>
</tbody>
</table>

**Limit values**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum system voltage</td>
<td>600 VDC</td>
</tr>
<tr>
<td>Over-current protection</td>
<td>15 A</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40 to 90°C</td>
</tr>
<tr>
<td>Max. mechanical load (snow/wind)</td>
<td>2,400 Pa</td>
</tr>
<tr>
<td>Tested snow load (IEC61701 test pass*)</td>
<td>5,400 Pa</td>
</tr>
</tbody>
</table>

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

**General data**

- Monocrystalline Si, 157 mm × 157 mm, back contact, 48 cells in series
- Anti-reflective high transmissive low iron tempered glass, 3 mm
- Anodized aluminium alloy, black
- PPE/PPO resin, IP67 rating, 110 x 109 x 13.7 mm, 3 bypass diodes
- PV1-F cable 4.0 mm, length 1,000 mm
- SMK CCT9901-2362F/2452F (Catalog No PS1-6H/R51-6), 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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**Contact Sharp**

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**Contact Installer**

Local responsibility:

- Benelux: SolarInfo.seb@sharp.eu, France: Solarinfo.fr@sharp.eu, Germany: Solarinfo.de@sharp.eu, Poland: energy-info.pl@sharp.eu
- Spain & Portugal: Solarinfo.es@sharp.eu, United Kingdom: Solarinfo.uk@sharp.eu, Other countries: Solarinfo.Europe@sharp.eu