

SHARP®

solar electricity

250 WATT

MULTI-PURPOSE MODULE



ND-250QCS

MULTI-PURPOSE 250 WATT
MODULE FROM THE WORLD'S
TRUSTED SOURCE FOR SOLAR.

Using breakthrough technology, made possible by nearly 50 years of proprietary research and development, Sharp's ND-250QCS solar module incorporates an advanced surface texturing process to increase light absorption and improve efficiency. Common applications include commercial and residential grid-tied roof systems as well as ground mounted arrays. Designed to withstand rigorous operating conditions, this module offers high power output per square foot of solar array.

This module is ideal for large commercial applications, demonstrating financial astuteness and environmental stewardship.

ENGINEERING EXCELLENCE

High module efficiency for an outstanding balance of size and weight to power and performance.

5% POSITIVE POWER TOLERANCE

Count on Sharp to deliver all the watts you pay for with a positive-only power tolerance of +5%.

RELIABLE

25-year limited warranty on power output and 10-year limited warranty on materials or workmanship.

HIGH PERFORMANCE

This module uses an advanced surface texturing process to increase light absorption and improve efficiency.



Sharp multi-purpose modules offer industry-leading performance for a variety of applications.



Tempered glass, EVA lamination and weatherproof backskin provide long-life and enhanced cell performance.

SHARP: THE NAME TO TRUST

When you choose Sharp, you get more than well-engineered products. You also get Sharp's proven reliability, outstanding customer service and the assurance of both our 10-year warranty on materials or workmanship as well as the 25-year limited warranty on power output. With over 50 years experience in solar and over 4.3 GW of installed capacity, Sharp has a proven legacy as a trusted name in solar.

BECOME POWERFUL

250 WATT

ND-250QCS

Module output cables: 12 AWG PV Wire (per UL Subject 4703)

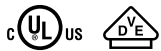
| ELECTRICAL CHARACTERISTICS | |
|--------------------------------|-------------------------|
| Maximum Power (Pmax)* | 250 W |
| Tolerance of Pmax | +5%/-0% |
| PTC Rating | 223.6 W |
| Type of Cell | Polycrystalline silicon |
| Cell Configuration | 60 in series |
| Open Circuit Voltage (Voc) | 38.3 V |
| Maximum Power Voltage (Vpm) | 29.8 V |
| Short Circuit Current (Isc) | 8.90 A |
| Maximum Power Current (Ipm) | 8.40 A |
| Module Efficiency (%) | 15.3% |
| Maximum System (DC) Voltage | 600 V (UL)/1000V (IEC) |
| Series Fuse Rating | 15 A |
| NOCT | 47.5°C |
| Temperature Coefficient (Pmax) | -0.485%/°C |
| Temperature Coefficient (Voc) | -0.36%/°C |
| Temperature Coefficient (Isc) | 0.053%/°C |

*Illumination of 1 kW/m² (1 sun) at spectral distribution of AM 1.5 (ASTM E892 global spectral irradiance) at a cell temperature of 25°C.

| MECHANICAL CHARACTERISTICS | |
|-------------------------------------|---|
| Dimensions (A x B x C to the right) | 39.1" x 64.6" x 1.8"/994 x 1640 x 46 mm |
| Cable Length (G) | 43.3"/1100 mm |
| Output Interconnect Cable | 12 AWG with *SMK Locking Connector |
| Hail Impact Resistance | 1" (25 mm) at 52 mph (23 m/s) |
| Weight | 41.9 lbs / 19.0 kg |
| Max Load | 50 psf (2400 Pascals) |
| Operating Temperature (cell) | -40 to 194°F / -40 to 90°C |

*Intertek recognized for mating with MC-4 connectors (part numbers PV-KST4; PV-KBT4)

| CERTIFICATIONS | |
|---|--|
| UL 1703, ULC/ORD-C1703, IEC 61215, IEC 61730, CEC, FSEC | |



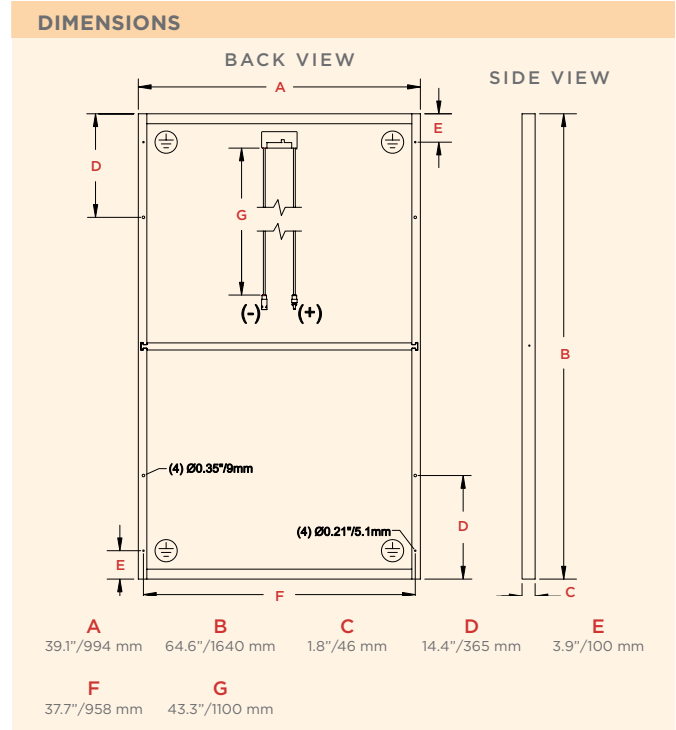
| WARRANTY | |
|---|--|
| 25-year limited warranty on power output | |
| Contact Sharp for complete warranty information | |

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SHARP®

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Contact Sharp for tolerance specifications

ISO QUALITY & ENVIRONMENTAL MANAGEMENT

Sharp solar modules are manufactured in ISO 9001:2000 AND ISO 14001:2004 certified facilities.

"BUY AMERICAN"

Sharp solar modules are manufactured in the United States and Japan, and qualify as "American" goods under the "Buy American" clause of the American Recovery and Reinvestment Act (ARRA).

