

# 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/m<sup>2</sup> (1 sun) at spectral distribution of AM 1.5 (ASTM E892 global spectral irradiance) at a cell temperature of 25°C.

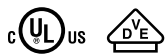
### MECHANICAL CHARACTERISTICS

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

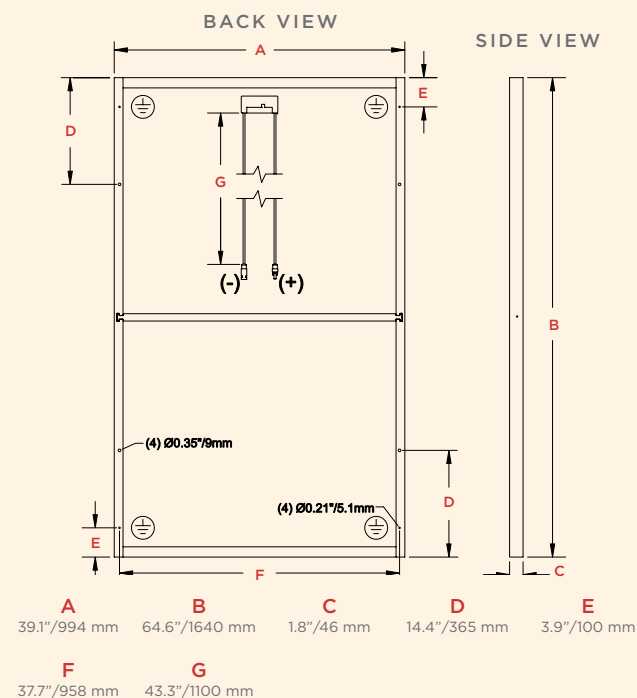
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### DIMENSIONS



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).

