200 WATT

NEXT GENERATION. BREAKTHROUGH PERFORMANCE.

POLY-CRYSTALLINE SILICON PHOTOVOLTAIC MODULE WITH 200W MAXIMUM POWER

This poly-crystalline 200 watt module features 12.3% module efficiency for an outstanding balance of size and weight to power and performance. Using breakthrough technology perfected by Sharp's 45 years of research and development, these modules incorporate 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, Sharp's ND-200U2 modules offer high power output per square foot of solar array.

Solder-coated grid results in high fill factor performance under low light conditions.

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

FEATURES

- **High-power module (200W) using 156mm square poly-crystalline silicon solar cells with 12.3% module conversion efficiency**

- **Sharp's advanced surface texturing process increases light absorption and efficiency while providing a more subdued, "natural" look**

- **Bypass diodes minimize the power drop caused by shade**

- **Water white tempered glass, EVA resin, and a weatherproof film, plus aluminum frame for extended outdoor use**

- **UL Listings: UL1703, cUL**

- **Sharp modules are manufactured in ISO 9001 certified facilities**

- **25-year limited warranty on power output (see dealer for details)**

ELECTRICAL CHARACTERISTICS

Cell	Poly-crystalline silicon
No. of Cells and Connections	60 in series
Open Circuit Voltage (Voc)	35.5V
Maximum Power Voltage (Vpm)	28.5V
Short Circuit Current (Isc)	7.82A
Maximum Power Current (Ipm)	7.02A
Rated Power (Pmax)*	200W (+10% / -5%)
Module Efficiency (η_m)	12.3%
Maximum System Voltage	600VDC
Series Fuse Rating	15A
Type of Output Terminal	Cable with MC Connector

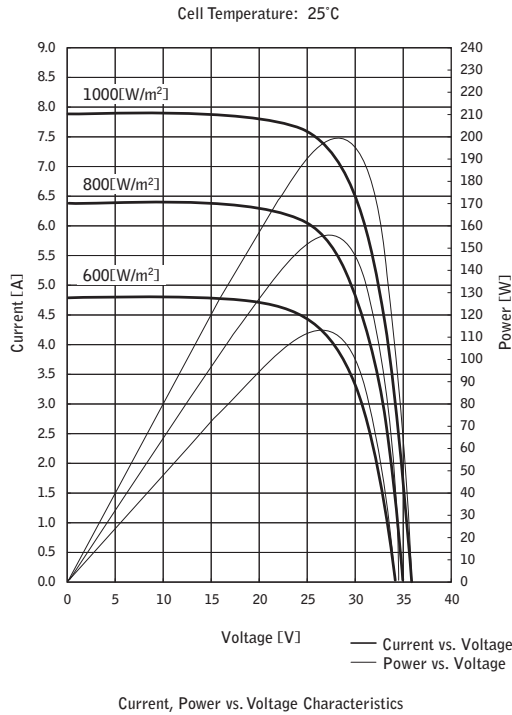* (STC) Standard Test Conditions: 25°C, 1 kW/m², AM 1.5

MECHANICAL CHARACTERISTICS

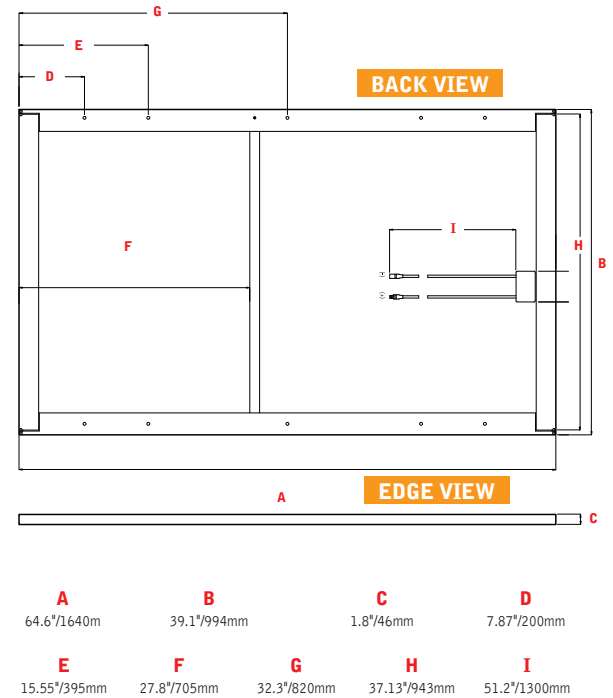|	
Dimensions A x B x C (below)	64.6" x 39.1" x 1.8" / 1640 x 994 x 46mm
Weight	46.3lbs / 21kg
Size of Carton	68.3" x 43.2" x 4.5"/ 1735 x 1097 x 114mm
Carton Quantity	2 pcs per carton
Pallet Quantity	28 pcs per pallet
Loading Capacity (48 ft container)	448 pcs (16 pallets)
Loading Capacity (53 ft container)	476 pcs (17 pallets)

ABSOLUTE MAXIMUM RATINGS

Operating Temperature (min to max, °F/°C)	-40 to +194˚F / -40 to +90˚C
Storage Temperature (min to max, °F/°C)	-40 to +194˚F / -40 to +90˚C

IV CURVES

Cell Temperature: 25˚C

1000[W/m²]
800[W/m²]
600[W/m²]

Current [A] — Voltage [V] — Power [W]

— Current vs. Voltage
— Power vs. Voltage

Current, Power vs. Voltage Characteristics

DIMENSIONS

BACK VIEW

EDGE VIEW

A	B	C	D
64.6"/1640m	39.1"/994mm	1.8"/46mm	7.87"/200mm

E	F	G	H	I
15.55"/395mm	27.8"/705mm	32.3"/820mm	37.13"/943mm	51.2"/1300mm

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Contact Sharp to obtain the latest product manuals before using any Sharp device.

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SHARP

Cover photo: Solar installation by Pacific Power Management, Auburn CA

SESG-200U2-607
Printed in the USA