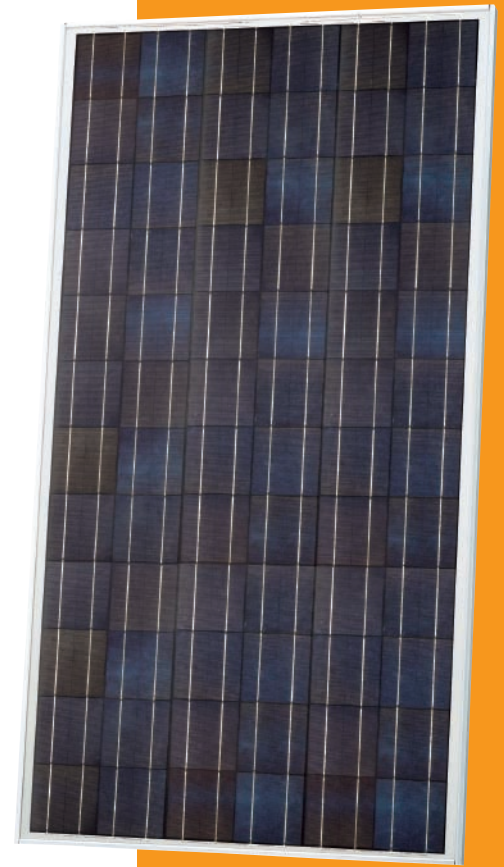


# 160 WATT

HIGH-POWERED MODULE. SUPERIOR PERFORMANCE.

## POLY-CRYSTALLINE SILICON PHOTOVOLTAIC MODULE WITH 160W MAXIMUM POWER

Sharp's NE-160U1 photovoltaic modules offer high-powered performance and industry-leading durability for large electrical power requirements. 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 office buildings, houses, cabins, solar powerstations, solar villages and traffic lights. Ideal for grid-connected systems and designed to withstand rigorous operating conditions, Sharp's NE-160U1 modules are the perfect combination of technology and reliability.



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



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

## FEATURES

- High-power module (160W) using 125mm square polycrystalline silicon solar cells
- 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	72 in series
Open Circuit Voltage (Voc)	43.1V
Maximum Power Voltage (Vpm)	34.0V
Short Circuit Current (Isc)	5.23A
Maximum Power Current (Ipm)	4.71A
Rated Power (Pmax)*	160W (+10% / -5%)
Module Efficiency ( $\eta_m$ )	12.3%
Maximum System Voltage	600VDC
Series Fuse Rating	10A
Type of Output Terminal	Lead wire with MC Connector

\* (STC) Standard Test Conditions: 25°C, 1 kW/m<sup>2</sup>, AM 1.5

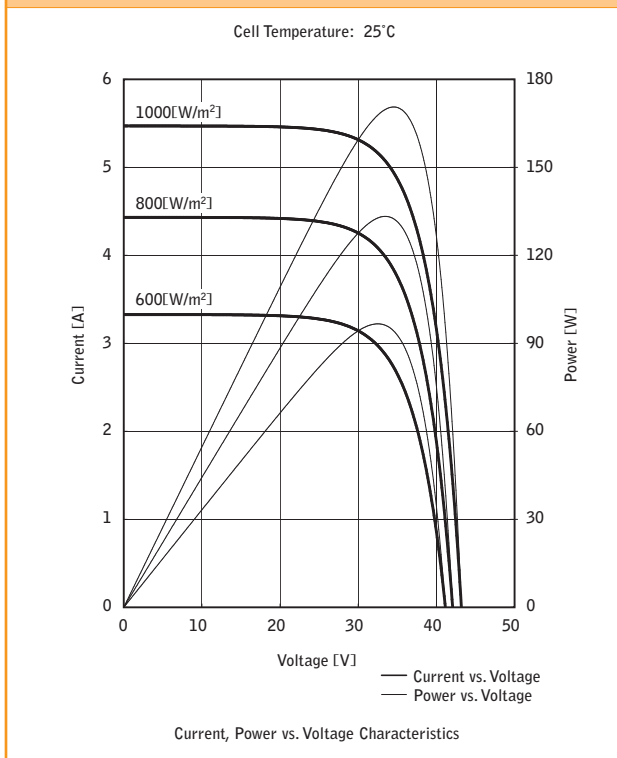
### MECHANICAL CHARACTERISTICS

Dimensions (A x B x C below)	62.01" x 32.52" x 1.81" / 1575 x 826 x 46mm
Weight	37.485lbs / 17.0kg
Size of Carton	66.93"x 38.19"x 5.12" / 1700 x 970 x 130mm
Packing Configuration	2 pcs per carton
Loading Capacity (20ft container)	168 pcs (84 pallets)
Loading Capacity (48ft container)	448 pcs (224 pallets)
Loading Capacity (53 ft container)	504 pcs (252 pallets)

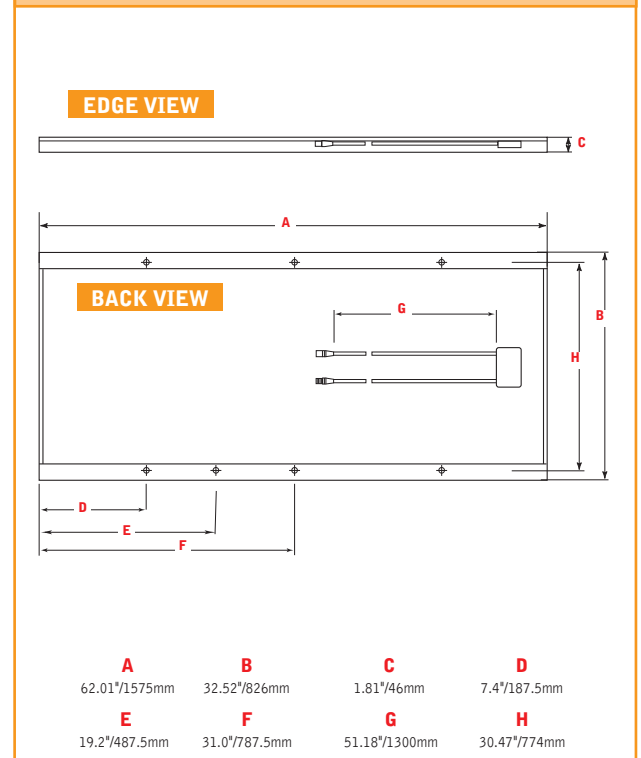
### ABSOLUTE MAXIMUM RATINGS

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



### DIMENSIONS



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

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