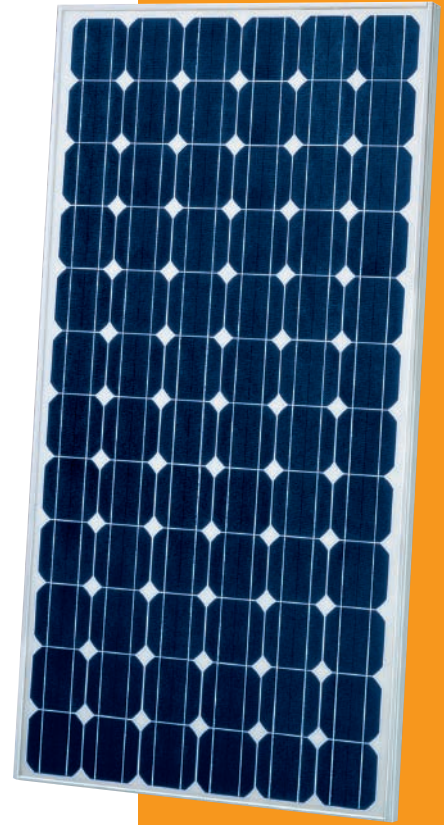


180 WATT

HIGH POWER. HIGH EFFICIENCY.

MONO-CRYSTALLINE SILICON PHOTOVOLTAIC MODULE WITH 180W MAXIMUM POWER

This mono-crystalline 180 watt module features 13.8% module efficiency for an outstanding balance of size and weight to power and performance. Using breakthrough technology perfected by Sharp's more than 45 years of research and development, these modules use a textured cell surface to increase light absorption and improve efficiency. Common applications include office buildings, cabins and solar power stations. Ideal for both residential and commercial grid-connected systems and designed to withstand rigorous operating conditions, Sharp's NT-180U1 modules offer the maximum usable power per square foot of solar array.



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 (180W) using 125mm square mono-crystalline silicon solar cells with 13.8% module conversion efficiency
- Sharp's advanced surface texturing process increases light absorption and efficiency while providing a more subdued, "natural" look
- Bypass diode minimizes the power drop caused by shade
- White tempered glass, EVA resin, and a weatherproof film, plus aluminum frame for extended outdoor use
- Nominal 24VDC output, ideal for grid-connected systems
- UL Listings: UL 1703, cUL
- Sharp modules are manufactured in ISO 9001 certified facilities
- 25-year limited warranty on power output (see dealer for details)

ELECTRICAL CHARACTERISTICS

Cell	Mono-crystalline silicon
No. of Cells and Connections	72 in series
Open Circuit Voltage (Voc)	44.8V
Maximum Power Voltage (Vpm)	35.86V
Short Circuit Current (Isc)	5.60A
Maximum Power Current (Ipm)	5.02A
Rated Power (Pmax)*	180W (+10%/-5%)
Module Efficiency Maximum Power (η_m)	13.8%
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/m², AM 1.5

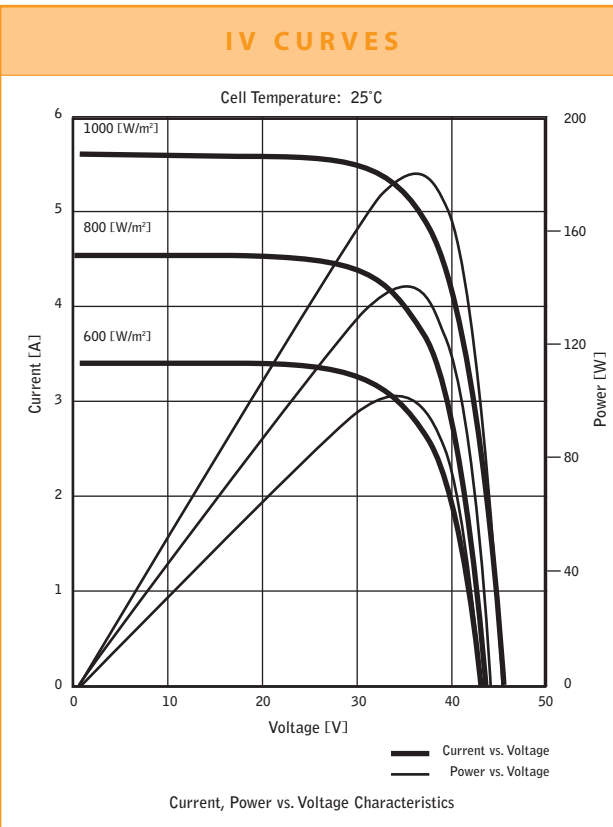
MECHANICAL CHARACTERISTICS

Dimensions (A x B x C below)	62.01" x 32.52" x 1.8" / 1575 x 826 x 46mm
Weight	37.5lbs / 17kg
Size of Carton	66.93" x 38.19" x 5.12" / 1700 x 970 x 130mm
Packing Configuration	2 pcs per carton
Pallet Quantity	28 pcs per pallet
Loading Capacity (48 ft container)	448 pcs (16 pallets)
Loading Capacity (53 ft container)	504 pcs (18 pallets)

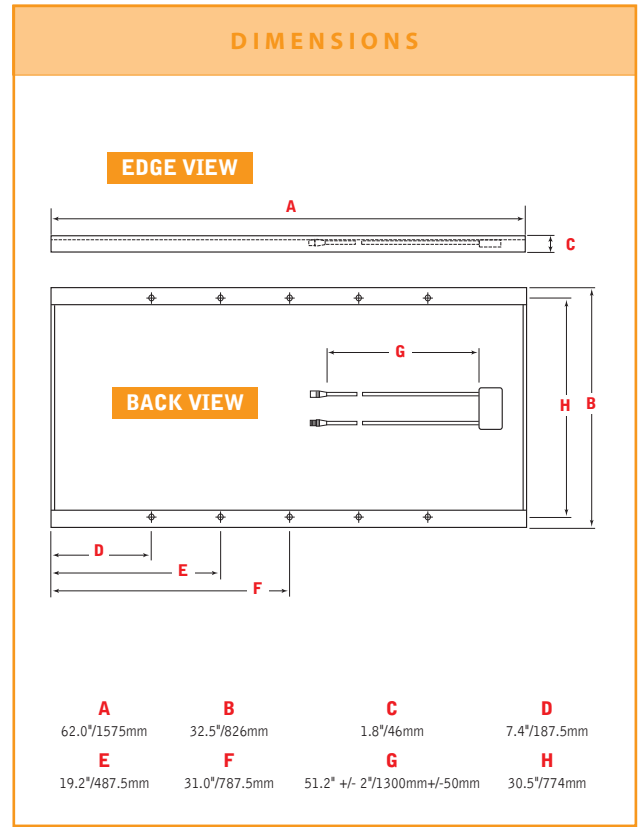
ABSOLUTE MAXIMUM RATINGS

Operating Temperature	-40 to 194°F / -40 to 90°C
Storage Temperature	-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.

