

130 WATT

SUPERIOR DURABILITY. HIGH EFFICIENCY.

POLYCRYSTALLINE SILICON PHOTOVOLTAIC MODULE WITH 130W MAXIMUM POWER

Sharp's ND-130UJF photovoltaic modules offer industry-leading performance, durability, and reliability for a variety of electrical power requirements. Using breakthrough technology perfected by Sharp's 50 years of research and development, these modules incorporate an advanced surface texturing process to increase light absorption and improve efficiency. Common applications include cabins, solar power stations, pumps, beacons, and lighting equipment. Designed to withstand rigorous weather conditions, a junction box is also provided for easy electrical connections in the field, making Sharp's ND-130UJF modules the perfect combination of advanced technology and reliability.



FEATURES

- High-power module (130 W) using 156 mm square polycrystalline silicon solar cells with 13.1% 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 encapsulation, plus clear anodized aluminum frame for extended outdoor use
- Junction box for easy electrical connections in the field
- Nominal 12 VDC output for battery charging applications
- Listings: UL 1703 (cUL also) FM (NI CL1 DIV 2 GPS A,B,C,D T3C)
- Sharp modules are manufactured in ISO 9001 and ISO 14001 certified facilities
- 25-year limited warranty on power output (see dealer for details)



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.

ELECTRICAL SPECIFICATIONS

Cell	Polycrystalline silicon
Number of Cells and Configuration	36 in series
Open Circuit Voltage (Voc)	21.9 V
Maximum Power Voltage (V _{pm})	17.4 V
Short Circuit Current (I _{sc})	8.2 A
Maximum Power Current (I _{pm})	7.5 A
Maximum Power (P _m)*	130 W (+10% / -5%)
Module Efficiency	13.1%
Maximum System Voltage	600 V
Series Fuse Rating	15 A
Type of Output Terminal	Junction Box

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

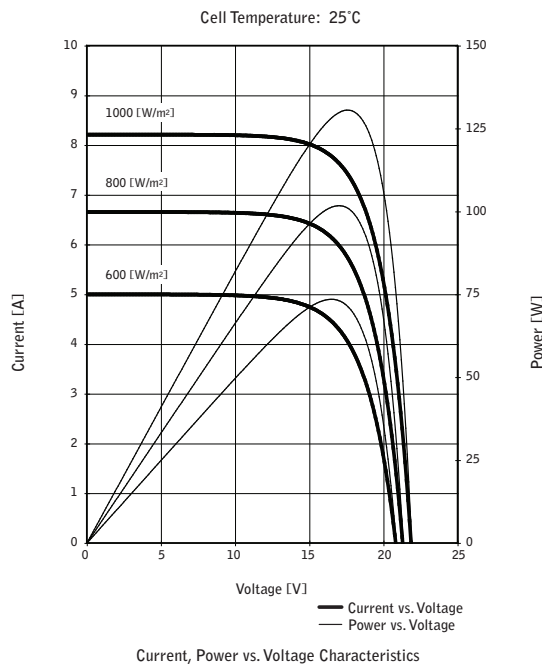
MECHANICAL SPECIFICATIONS

Dimensions (A x B x C below)	26.1" x 59.0" x 1.8" (662 mm x 1499 mm x 46 mm)
Weight	30.86 lbs / 14.0 kg
Size of Carton	59.6" x 26.7" x 2.3" (1514 mm x 678 mm x 59 mm)
Packing Configuration	1 pc per carton

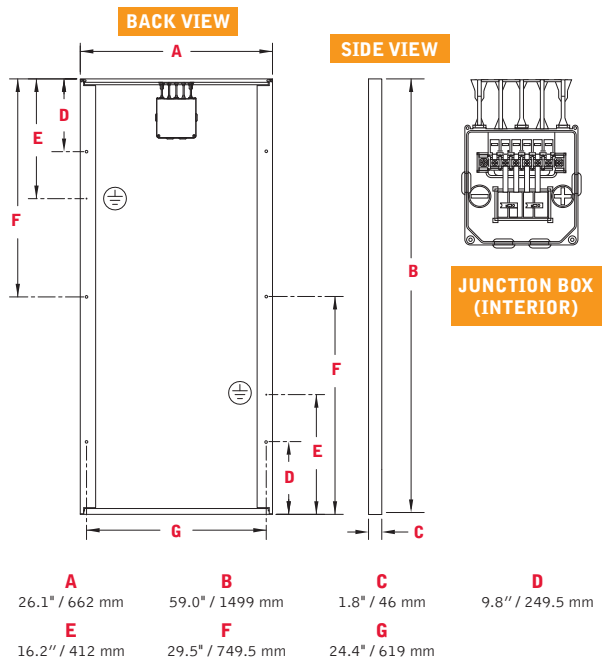
ABSOLUTE MAXIMUM RATINGS

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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