

# 187 WATT

HIGH-POWER. EFFICIENT INSTALLATION.

## POLY-CRYSTALLINE SILICON PHOTOVOLTAIC MODULE WITH 187W MAXIMUM POWER

These poly-crystalline 187 watt modules offer high-powered performance with an efficient design for quick and easy installation. For use specifically with Sharp's solar racking system (SRS), they are designed to offer easier and faster installations. 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. Ideal for virtually all sizes of residential and commercial grid-connected systems, they also offer improved aesthetics and durability under the most rigorous operating conditions. Sharp's ND-187U1F modules are the ideal combination of power, performance and efficiency.



*Special side flanges mount easily and securely to Sharp's innovative new racking system*



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

## FEATURES

- High-power module (187W) using 156mm square poly-crystalline silicon solar cells with 12.7% 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
- Black anodized aluminum frame and "L" hook design located along frame perimeter for easy integration with SRS mounting hardware
- Water white tempered glass, EVA resin, and a weatherproof film, plus aluminum frame for extended outdoor use
- 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	Poly-crystalline silicon
No. of Cells and Connections	54 in series
Open Circuit Voltage (Voc)	32.7V
Maximum Power Voltage (Vpm)	25.8V
Short Circuit Current (Isc)	7.99A
Maximum Power Current (Ipm)	7.25A
Rated Power (Pmax)*	187W (+10%/-5%)
Module Efficiency Maximum Power ( $\eta_m$ )	12.7%
Maximum System Voltage	600VDC
Series Fuse Rating	15A
Type of Output Terminal	Lead Wire with MC Connector

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

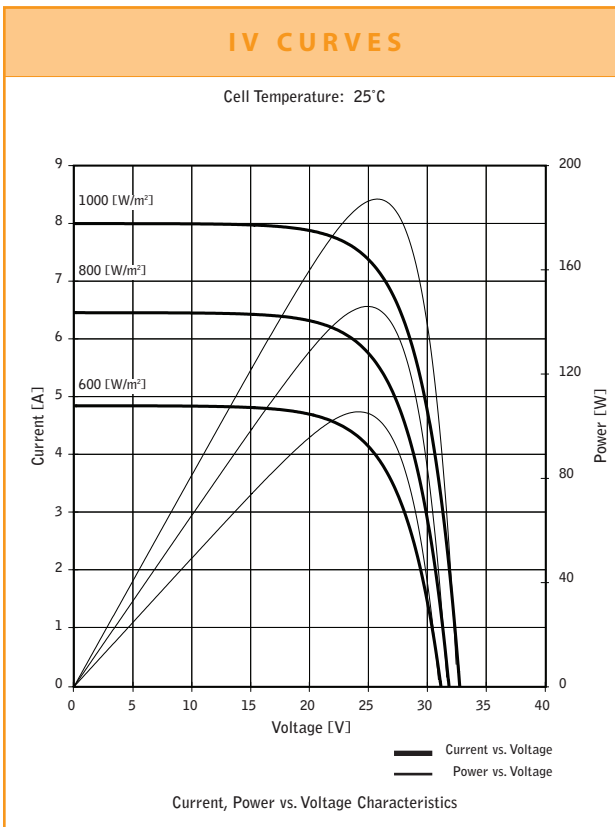
### MECHANICAL CHARACTERISTICS

Dimensions (A x B x C below)	58.7" x 39.1" x 2.3" / 1491 x 994 x 57.5mm
Weight	39.6lbs / 18.0kg
Size of Carton	62.5" x 43.0" x 5.5" / 1588 x 1092 x 140mm
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)

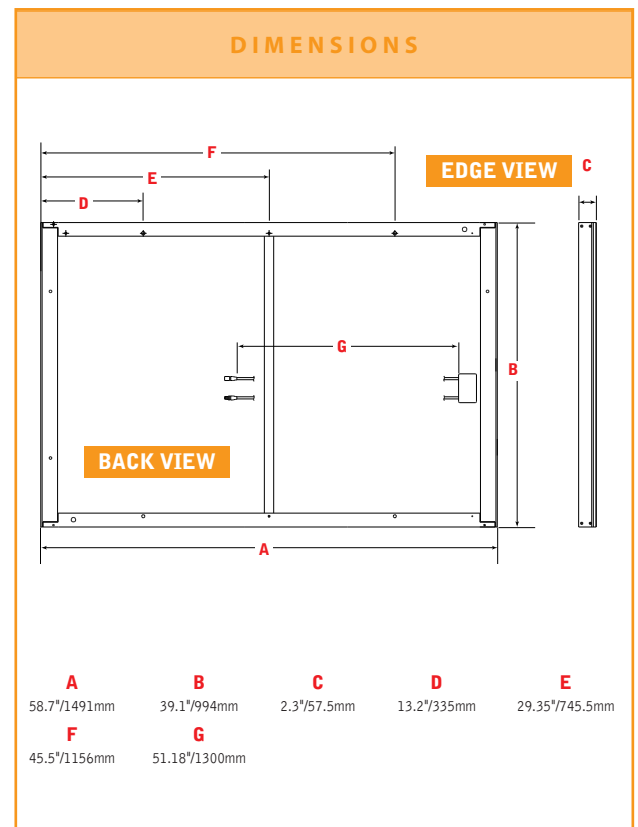
### ABSOLUTE MAXIMUM RATINGS

Operating Temperature (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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