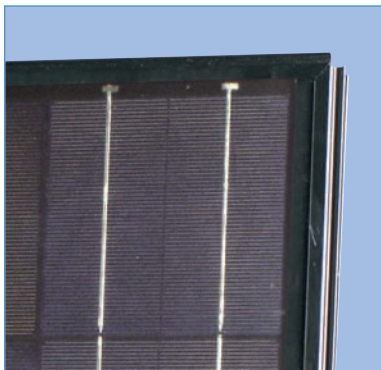


# 142 WATT

ATTRACTIVE LOOK. FLEXIBLE DESIGN.

## POLY-CRYSTALLINE SILICON PHOTOVOLTAIC MODULE WITH 142W MAXIMUM POWER

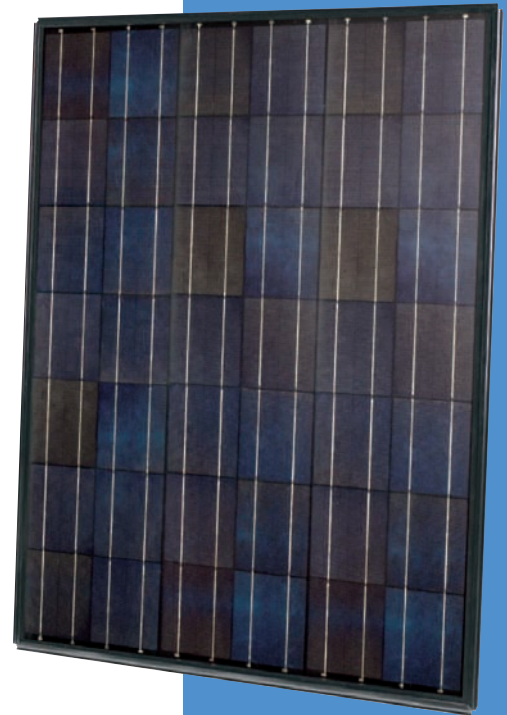
Sharp's ND-N2ECU photovoltaic modules offer increased aesthetics and revolutionary design integration. These residential photovoltaic modules give the clean, attractive appearance of a high-tech skylight while the black anodized aluminum frames, trim strips, and backing sheets blend beautifully with the home's exterior. In addition, an "L" hook design located along the frame's perimeter ensures easy integration with the residential system mounting hardware. 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. And, as the global leader in solar manufacturing, Sharp has designed these modules with superb durability and efficiency to withstand extreme heat and high winds. Sharp's ND-N2ECU is the perfect combination of technology and aesthetics.



*The laminated glass module is glazed into a high torsion black anodized aluminum frame.*



*Sharp's residential modules with black frames, trim strips, and backing sheets allow for the seamless integration of the system into the home's design.*



## FEATURES

- High-power module (142W) using 155mm square poly-crystalline silicon solar cells with 12.31% 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
- Black anodized aluminum frame and "L" hook design located along frame perimeter for easy integration with residential system mounting hardware
- Nominal 14 VDC output is an ideal match for the Sharp multi-string inverter
- Manufactured in ISO 9001 certified facilities
- 25-year limited warranty on power output (see dealer for details)
- UL Listings: UL 1703, cUL

### ELECTRICAL CHARACTERISTICS

Cell	Poly-crystalline silicon
No. of Cells and Connections	42 in series
Open Circuit Voltage (Voc)	24.9V
Maximum Power Voltage (Vpm)	20.0V
Short Circuit Current (Isc)	7.92A
Maximum Power Current (Ipm)	7.11A
Maximum Power (Pmax)*	142W (+10% / -5%)
Module Efficiency (ηm)	12.31%
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

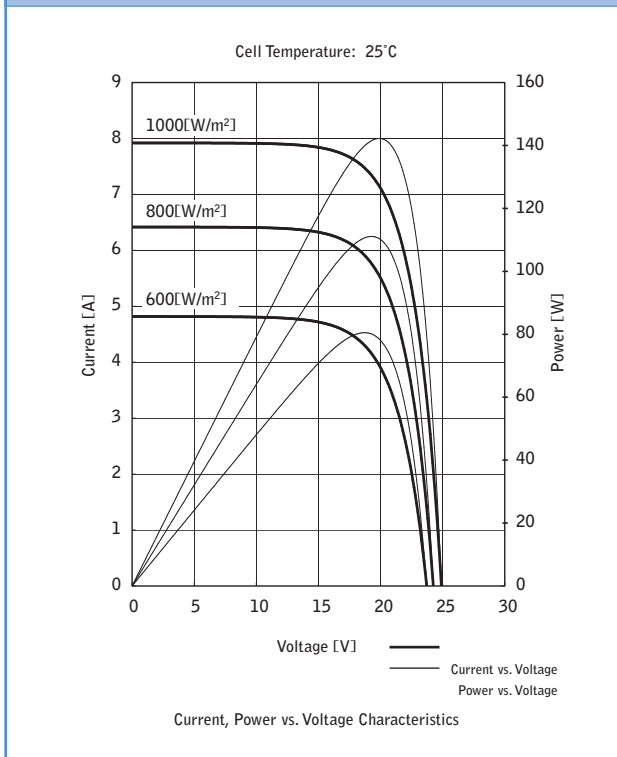
### MECHANICAL CHARACTERISTICS

Dimensions (A x B x C below)	45.87" x 38.98" x 1.81" 1165mm x 990mm x 46mm
Weight	31.96lbs / 14.5kg
Packing Configuration	2 pcs per carton
Size of Carton	49.6" x 42.52" x 5.12" 1260mm x 1080mm x 130mm
Loading Capacity (20 ft container)	196 pcs (98 cartons)
Loading Capacity (40 ft container)	420 pcs (210 cartons)

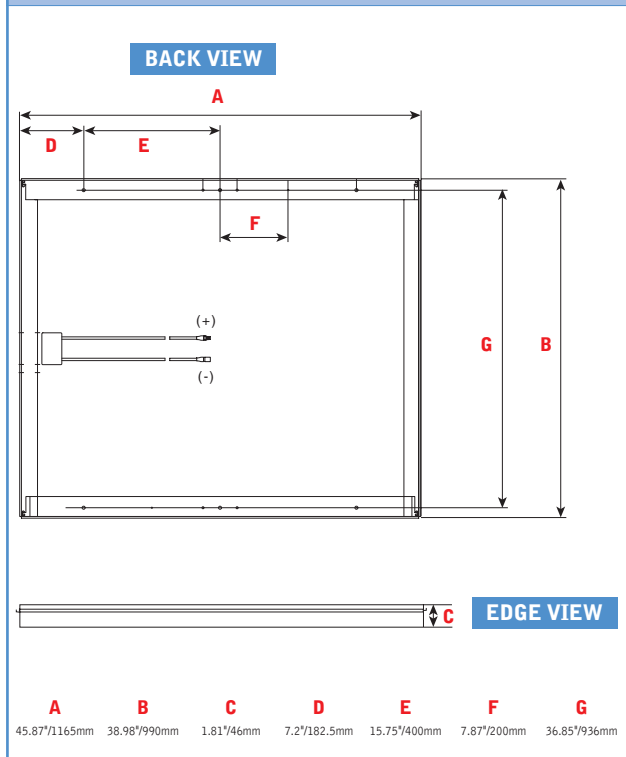
### ABSOLUTE MAXIMUM RATINGS

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

### IV CURVES



### DIMENSIONS



Design and specifications are subject to change without notice.

In the absence of confirmation by product manuals, Sharp takes no responsibility for any defects that may occur in equipment using any Sharp devices. Contact Sharp to obtain the latest product manuals before using any Sharp device.

