

80 WATT



FEATURES

High-power module (80W) using 125mm square multi-crystal silicon solar cells with 12.60% module conversion efficiency

Photovoltaic module with bypass diode minimizes the power drop caused by shade

Textured cell surface to reduce the reflection of sunlight and BSF (Black Surface Field) structure to improve cell conversion efficiency: 14.11%.

White tempered glass, EVA resin, and a weatherproof film, plus aluminum frame for extended outdoor use

Nominal 12 volt output for battery charging applications

Output terminal: Junction Box

CLEAN, SAFE, RELIABLE SOLAR ENERGY FROM SHARP

MULTI-SILICON PHOTOVOLTAIC MODULE WITH 80W MAXIMUM POWER

A safe, clean, reliable source of energy, Sharp's NE-80EJE photovoltaic module is designed for a variety of electrical power requirements. Based on the technology of crystal silicon solar cells developed over 35 years, this module has superb durability to withstand rigorous operating conditions and is suitable for use in most solar systems.

Common applications for the Sharp NE-80EJE include private residences, RVs, cabins and vacation homes, solar power stations, pumps, beacons and lighting equipment. As the world's leading manufacturer of photovoltaic modules, Sharp produces an extensive line of high power modules for every electrical power requirement.

NE-80EJE - MULTI-PURPOSE MODULE

ELECTRICAL CHARACTERISTICS

Cell	Multi-crystal silicon
No. of Cells and Connections	36 in series
Open Circuit Voltage (Voc)	21.3 V
Maximum Power Voltage (Vpm)	17.1 V
Short Circuit Current (Isc)	5.3 A
Maximum Power Current (Ipm)	4.67 A
Maximum Power (Minimum Power) (Pm) ¹	80 W (76W)
Encapsulated Solar Cell Efficiency (ηc)	14.11 %
Module Efficiency (ηm)	12.60 %
Maximum System Voltage	DC 600V
Series Fuse Rating	10A
Type of Output Terminal	Junction Box

MECHANICAL CHARACTERISTICS

Dimensions (A x B x C below)	1200 x 537 x 46 mm
Weight	8.5kg
Packing Condition	1 pcs per Carton
Size of Carton	1350 x 700 x 110 mm
Loading Capacity (20ft container)	242 pcs

ABSOLUTE MAXIMUM RATINGS

Parameters	Rating	Unit
Operating Temperature	-40 to +90	°C
Storage Temperature	-40 to +90	°C
Dielectric Voltage Withstood	2200 V DC max.	V-DC

IV CURVES

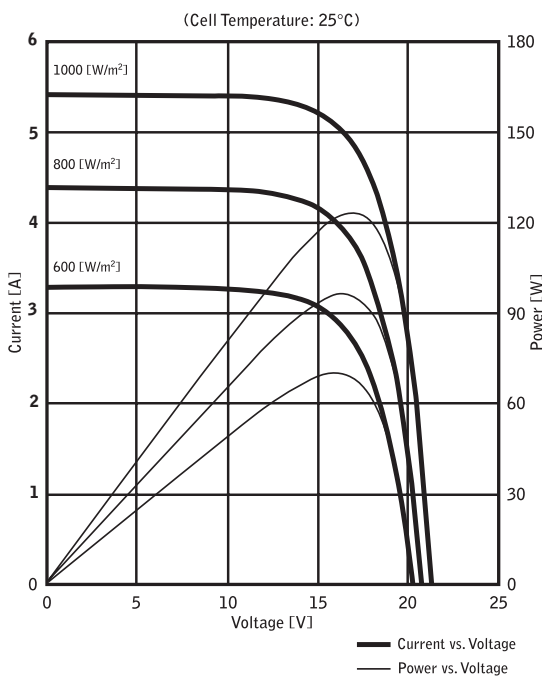
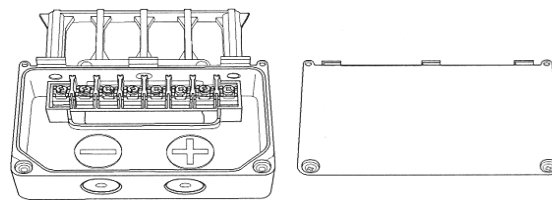


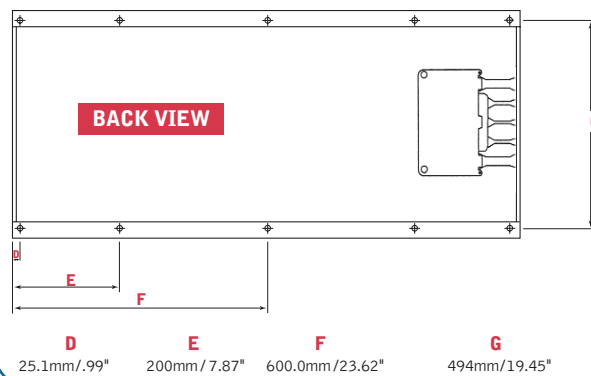
Fig. 1-2 Current, Power vs. Voltage Characteristics

DIMENSIONS

JUNCTION BOX



BACK VIEW



Specifications are subject to change without notice.

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

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SHARP Solar

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