

80 WATT



**CLEAN, SAFE, RELIABLE
SOLAR ENERGY FROM SHARP**

FEATURES

- High-power module (80W) using 125mm square multi-crystal silicon solar cells with 12.60% module conversion efficiency
- Photovoltaic module with bypass diode minimises 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
- Certifications: IEC 61215
- SHARP modules are manufactured in ISO 9001 certified factories

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, 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.

SHARP

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

Specifications are subject to change without notice
¹ (STC) Standard Test Conditions: 25°C, 1 kW/m², AM 1.5

MECHANICAL CHARACTERISTICS

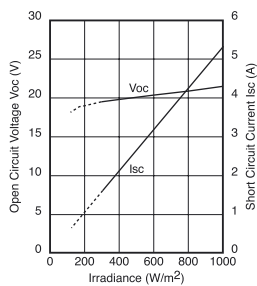
Dimensions	1200 x 537 x 46 mm
Weight	8.5kg
Packing Condition	1 pcs per Carton
Size of Carton	135 x 70 x 11 mm

ABSOLUTE MAXIMUM RATINGS

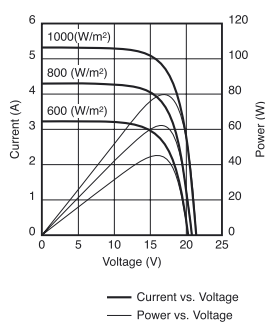
Parameters	Rating	Unit
Operating Temperature	-40 to +90	°C
Storage Temperature	-40 to +90	°C
Dielectric Voltage Withstood	2200 V DC max.	V-DC

IV CURVES

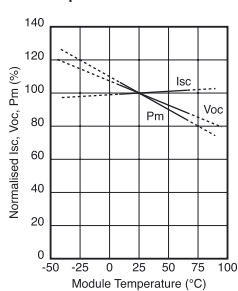
Open Circuit Voltage, Short Circuit Current vs. Irradiance Characteristics (Module temperature: 25°C)



Current, Power vs. Voltage Characteristics (Module temperature: 25°C)

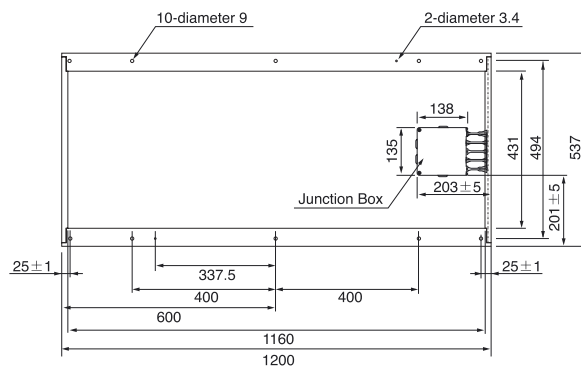


Normalised Isc, Voc, Pm vs. Module Temperature Characteristics

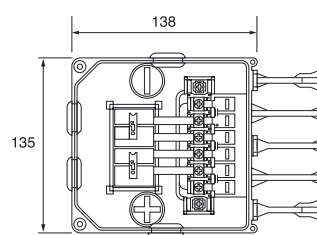


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DIMENSIONS



Junction Box



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In the absence of confirmation by device specifications sheets, Sharp takes no responsibility for any defects that may occur in equipment using any Sharp devices shown in catalogues, data books, etc. Contact Sharp in order to obtain the latest device specification sheets before using any Sharp device.

