

—NEW TECHNOLOGY—
Featuring Higher
Efficiency Dark Blue Cells

167 WATT



**A DURABLE MODULE
FOR LARGE ELECTRICAL
POWER NEEDS**

FEATURES

- High-power module (167W) using 125mm square multi-crystal silicon solar cells with 12.84% 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: 14.84%
- White tempered glass, EVA resin and a weatherproof film, plus aluminum frame for extended outdoor use
- Nominal 24 DC output, perfect for grid connected systems
- Output terminal: Lead wire with waterproof connector
- Certifications: IEC 61215
- SHARP modules are manufactured in ISO 9001 certified factories

MULTI-SILICON PHOTOVOLTAIC MODULE WITH 167W MAXIMUM POWER

A safe, clean, reliable source of energy, Sharp's **NE-Q7E3E** photovoltaic module is designed for large 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 grid connected systems.

Common applications for the Sharp NE-Q7E3E include residences, office buildings, solar power stations, solar suburbs, radio relay stations, beacons and traffic lights. 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-Q7E3E – MAXIMUM POWER

ELECTRICAL CHARACTERISTICS

Cell	Multi-crystal silicon solar cells
No. of Cells and Connections	72 in series
Open Circuit Voltage (Voc)	43.1
Maximum Power Voltage (Vpm)	34.6
Short Circuit Current (Isc)	5.37
Maximum Power Current (Ipm)	4.83
Maximum Power (Minimum Power) (Pm) ¹	167.0 (158.7)
Encapsulated Solar Cell Efficiency (ηc)	14.84
Module Efficiency (ηm)	12.84
Maximum System Voltage	DC 1000V
Series Fuse Rating	10A
Type of Output Terminal	Lead Wire with MC Connector

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

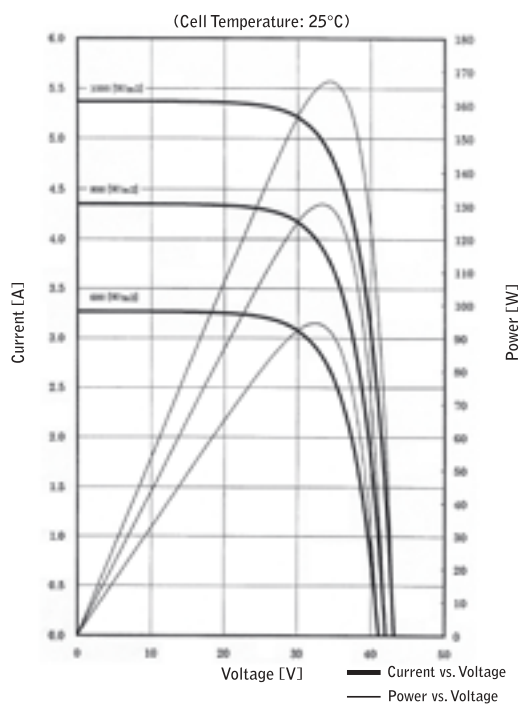
MECHANICAL CHARACTERISTICS

Dimensions (A x B x C below)	1575 x 826 x 46 mm
Weight	17.0kg
Packing Condition	2 pcs - 1 Carton
Size of Carton	1700 x 970 x 130 mm

ABSOLUTE MAXIMUM RATINGS

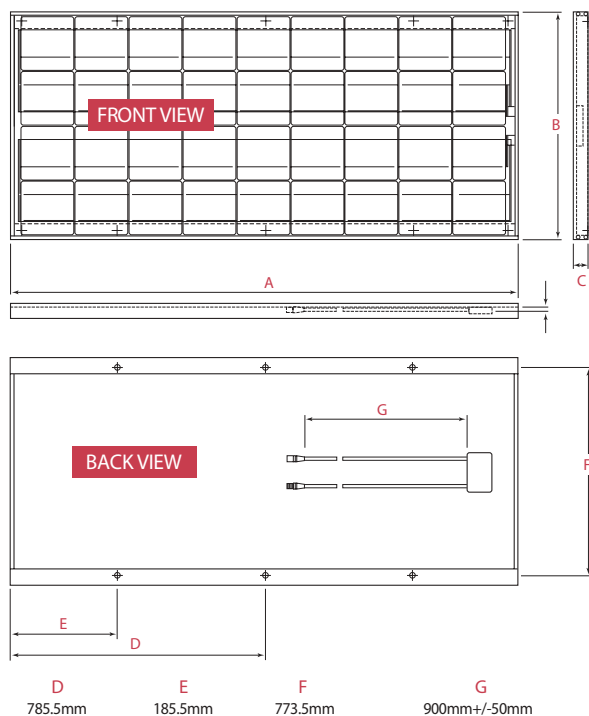
Parameters	Rating	Unit
Operating Temperature	-40 to +90	°C
Storage Temperature	-40 to +90	°C
Dielectric Voltage Withstood	3000 max.	V-DC

IV CURVES



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DIMENSIONS



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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.

