

—NEW TECHNOLOGY—
Featuring Higher
Efficiency Dark Blue Cells



125 WATT

**SUPERB DURABILITY
WITH IMPROVED CELL
CONVERSION EFFICIENCY**

FEATURES

- High-power module (125W) using 155mm square multi-crystal silicon solar cells with 12.59% 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: 14.45%
- 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: Lead wire with waterproof connector
- Certifications: IEC 61215
- SHARP modules are manufactured in ISO 9001 certified factories

MULTI-SILICON PHOTOVOLTAIC MODULE WITH 125W MAXIMUM POWER

A safe, clean, reliable source of energy, Sharp's **ND-L5E6E** 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 ND-L5E6E include private residences, RVs, cabins, vacation homes, solar power stations, pumps, telemetry systems, 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

ND-L5E6E – HIGH POWER MODULE

ELECTRICAL CHARACTERISTICS

| | |
|---|-----------------------------------|
| Cell | Multi-crystal silicon solar cells |
| No. of Cells and Connections | 36 in series |
| Open Circuit Voltage (Voc) | 21.7 |
| Maximum Power Voltage (Vpm) | 17.2 |
| Short Circuit Current (Isc) | 8.14 |
| Maximum Power Current (Ipm) | 7.30 |
| Maximum Power (Minimum Power) (Pm) ¹ | 125.0 (118.8) |
| Encapsulated Solar Cell Efficiency (ηc) | 14.45 |
| Module Efficiency (ηm) | 12.59 |
| Maximum System Voltage | DC 540V |
| 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) | 1499 x 662 x 46mm |
| Weight | 14.0kg |
| Packing Condition | 2 pcs - 1 Carton |
| Size of Carton | 1600 x 780 x 130mm |

ABSOLUTE MAXIMUM RATINGS

| Parameters | Rating | Unit |
|------------------------------|------------|------|
| Operating Temperature | -40 to +90 | °C |
| Storage Temperature | -40 to +90 | °C |
| Dielectric Voltage Withstood | 2080 max. | V-DC |

IV CURVES

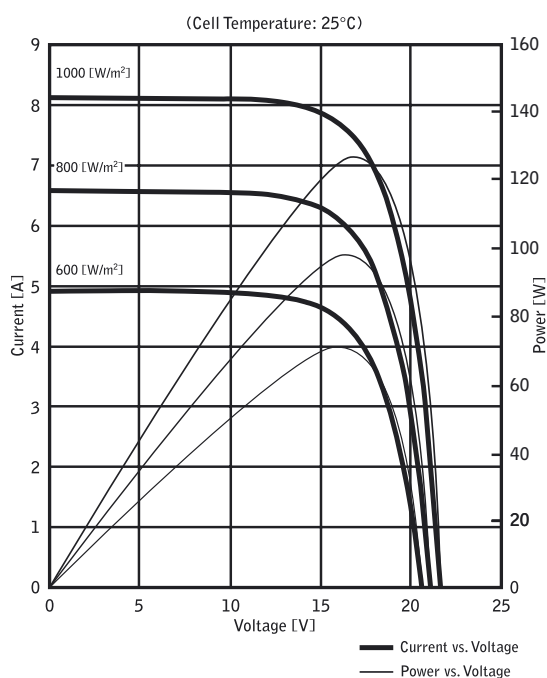
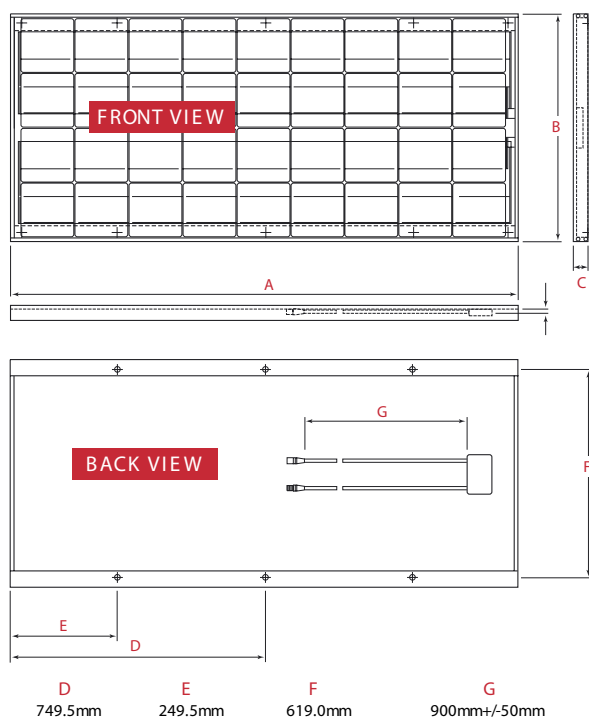


Fig. 1-2 Current, Power vs. Voltage Characteristics

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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.

