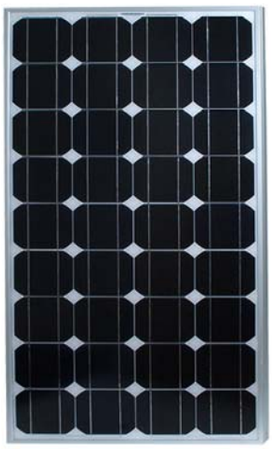
SHARP
World's Largest Manufacturers Of Solar Cells

175 WATTS

SINGLE CRYSTALLINE SILICON PHOTOVOLTAIC MODULE NT-R5E3E



GENERAL DESCRIPTION

This single crystal 175 watt module features 17.5% encapsulated cell efficiency and 13.2% module efficiency—the highest efficiency commercially available. Using break through technology perfected by Sharp's nearly 45 years of research and development, these modules use a textured cell surface to reduce reflection of sunlight, and BSF (Black Surface Field) structure to improve conversion efficiency. An anti-reflective coating provides a uniform blue color and increases the absorption of light in all weather conditions. Common applications include office buildings, cabins, solar power stations, solar villages, radio relay stations, beacons, and traffic lights. Ideal for grid-connected systems and designed to withstand rigorous operating conditions, Sharp's NT-R5E3E modules offer the maximum usable power per square foot of solar array.

FEATURES

- High-power module (175W) using 126 mm square single crystal silicon solar cells with 13.2% module conversion efficiency
- Photovoltaic module with bypass diode minimizes the power drop caused by shade
- Textured cell surface to reduce the reflected sunlight and BSF (Black Surface Field) structure to improve cell conversion efficiency:17.5%
- White tempered glass,EVA resin,and a weatherproof film, plus aluminum frame for extended outdoor use
- Nominal 24VDC output,perfect for grid-connected systems
- UL Listings: UL 1703, cUL
- Sharp modules are manufactured in ISO 9001 certified facilities
- 25-year limited warranty

ELECTRICAL SPECIFICATIONS	NT-R5E3E
Power (Typical Watt)	175 Watts
Performance Standard	IEC 61215
Production	JPN
Cell Type	126 mm Mono
Number of Cells	72
Maximum Power	175 Watts
Open Circuite Voltage (Voc)	44.4 V
short Circuit Current (Isc)	5.40 A
Maximum Power Voltage (Vpm)	35.4 V
Maximum Power Current (Ipm)	4.95 A
Module Efficiency	13.5 %
Dimension L x W x D	1575 x 826 x 46 mm
Weight	17.0 Kg
Maximum System Voltage	1000 V

* Dimensions may change subjected to solar cell size.
* Errors expected and possible alterations without prior notice.

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