



Article number: 231 205
Description: NTR5E3E/NT175E1

Module

Module type: Standard module
Frame: Aluminium anodised silver (similar to RAL 7035, light grey)
Size (W x H): 1575 x 826 mm
Frame height: 46 mm
Height of connecting box: 14 mm
Weight: 17 kg
Configuration: 72 cells (12 x 6)
Cell connection arrangement: In series

Cell

Cell type: Monocrystalline
Cell colour: Black
Size: 125.5 x 125.5 mm
Horizontal gap between cells: 2.0 mm
Vertical gap between cells: 2.0 mm
Distance from edge horizontally: 29.5 mm
Distance from edge vertically: 13.0 mm
Strip conductors: Horizontal

Input and output values (STC: 1000 W/m²; 25°C; AM 1.5)

Nominal output: P_{MPP} 175 Wp
Output tolerance: $\pm 5\%$
Nominal voltage: U_{MPP} 35.4 V
Nominal current: I_{MPP} 4.95 A
Open-circuit voltage: U_{oc} 44.4 V
Short-circuit current: I_{sc} 5.55 A
Max. system voltage (SKL II): U_{sys} 1000 V

Module design

Front glass: 3.2 mm opal glass
Space between cells: EVA with solar cells
Reverse side: PVF-PET-PVF foil

Connection

Connecting box with bypass diodes.
Fitted connecting cable 0.9 m with MC-T3 plug system.

Packing unit

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PV module: NTR5E3E / NT175E1

The **Sharp NTR5E3E/NT175E1** PV module builds on 40 years of technical development and offers excellent durability even in adverse environmental conditions.

The use of a bypass diode minimises the fall in output in the event of shade.

The high performance module with a cell efficiency of 16.4% achieves a module efficiency of 13.5%.

To protect them against the harshest of climatic conditions, the cells are embedded between a toughened glass covering and cast EVA, and are sealed on the reverse with PVF-PET-PVT foil. The laminate is held in a robust, easy to assemble aluminium frame.

Features

- Performance guarantee: 20 years: 80% of P_{Min}
10 years: 90% of P_{Min}
- 2-year product guarantee for end customers
- Each module is subjected to a 100% final inspection, with individual detection of the electrical values.
- Sharp solar modules exceed the internationally defined target values and meet the following requirements:
- JIS (Japanese Industrial Standard)
- IEC 61215, International Electrotechnical Commission, Worldwide Standard (TÜV / Rhineland)
- DIN VDE protection class II (TÜV / Rhineland)
- Connecting box with bypass diodes
- Fitted connecting cables with MC-T3 connectors