

Article number: 231 655 **Description: ND145E1P**

Module

Module type: Standard module

Frame: Aluminium anodised silver (similar to RAL 7035, light grey)

Size (W x H): 1318 x 994 mm

Frame height: 46 mm Height of connecting box: 14 mm Weight: 16 kg Configuration: 48 cells (8 x 6)

Cell connection arrangement: In series

Cell

Cell type: Polycrystalline Colour: Light blue 155.5 x 155.5 mm Size:

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: Vertical

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

P_{MPP} 145 Wp Nominal output: Output tolerance: +/_ 5 % Nominal voltage: U_{MPP} 22.2 V I_{MPP} 6.54 A Nominal current: Open-circuit voltage: 28.1 V U_{oc} Short-circuit current: 7.33 A I_{sc} Max. system voltage (SKL II): 1000 V Usys

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

diodes.

Fitted connecting cable 0.9 m with

MC-T3 plug system.

Packing unit 2

PV module: ND145E1P

The Sharp ND145E1P 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 13.3% achieves a module efficiency of 11.4%.

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

20 years: 80% of P_{Min} Performance guarantee: 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