



Article number: 231 204

Description: NDQ0E3E/ND160E1

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
Size: 155.5 x 155.5 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: Vertical

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

P_{MPP} 160 Wp Nominal output: Output tolerance: +/_ 5 % Nominal voltage: U_{MPP} 22.8 V I_{MPP} 7.02 A Nominal current: Open-circuit voltage: 28.4 V U_{oc} Short-circuit current: 8.04 A I_{sc} U_{sys} Max. system voltage (SKL II): 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 2

PV module: NDQ0E3E / ND160E1

The Sharp **NDQ0E3E/ND160E1** 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 13.8% achieves a module efficiency of 12.2%.

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