



**Article number:** 231 469  
**Description:** NDP5E3EP/ND155E1P

**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 grey  
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/m<sup>2</sup>; 25°C; AM 1.5)

Nominal output: P<sub>MPP</sub> 155 Wp  
Output tolerance: +/- 5 %  
Nominal voltage: U<sub>MPP</sub> 22.6 V  
Nominal current: I<sub>MPP</sub> 6.8 A  
Open-circuit voltage: U<sub>oc</sub> 28.3 V  
Short-circuit current: I<sub>sc</sub> 7.63 A  
Max. system voltage (SKL II): U<sub>sys</sub> 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: NDP5E3EP / ND155E1P**

The PV module Sharp **NDP5E3EP/ND155E1P** 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 13.0% achieves a module efficiency of 11.8%.

To protect them against the harshness 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<sub>Min</sub>  
10 years: 90% of P<sub>Min</sub>
- 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