Article number:	**231 825**
Description:	**NU183E1**

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:	Monocrystalline
Cell colour:	Black
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:	Horizontal

Input and output values (STC: 1000 W/m^2; 25°C; AM 1.5)

Nominal output:	P_{MPP}	183	Wp
Output tolerance:		+/_ 5	%
Nominal voltage:	U_{MPP}	23.9	V
Nominal current:	I_{MPP}	7.66	A
Open–circuit voltage:	U_{oc}	30.1	V
Short–circuit current:	I_{sc}	8.48	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	2

PV module: NU183E1

The **Sharp NU183E1** 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 15.7% achieves a module efficiency of 13.7%.
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_{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