

Modules

SHARP

Sharp's NTR5E3E / NT175E1 photovoltaic module is designed for large electrical power requirements. Based on the technology of crystal silicon solar cells cultivated for over 40 years, this module has super durability to withstand rigorous operating conditions and is suitable for grid connected systems.

High-power module using 125.5 mm square monocrystalline silicon solar cells with 13.5 % module conversion efficiency.

Photovoltaic module with bypass diode minimises the power drop caused by shade. Textured cell surface to reduce the reflection of sunlight and BSF (Back Surface Field) structure to improve cell conversion efficiency.

Using white tempered glass, EVA resin, and a weatherproof film along with an aluminium frame for extended outdoor use.

Note:

NTR5E3E is manufactured in Japan

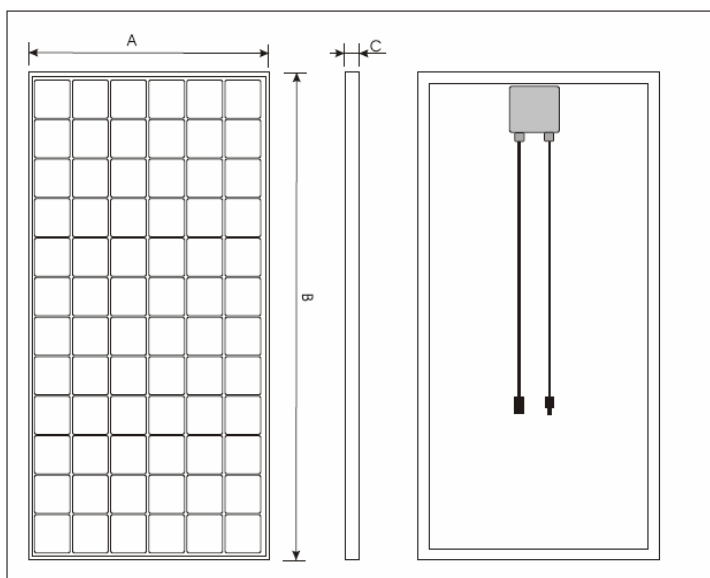
NT175E1 is manufactured in UK

Apart from the place of manufacture the models are identical in construction.



Article no.	NT175E1	
Maximum power	Pmax	175 Wp
Open circuit voltage	Voc	44.4 V
Maximum power point voltage	Vmpp	35.4 V
Short circuit current	Isc	5.40 A
Maximum power point current	Impp	4.95 A

The electrical data applies under Standard Test Conditions (STC): Radiation 1,000 W/m² with a spectrum of AM 1.5 and at a cell temperature of 25 °C.



Component materials

Cells per module	72
Cell type	mono crystalline silicon
Cell dimensions	125.5 x 125.5 mm

Thermal characteristics

NOCT	46°C
TC Isc	0.053 %/K
TC Voc	-0.35 %/K

System integration parameters

Max. system voltage SC II	1,000 VDC
Max. reverse current	Do not apply external voltages larger than Voc to the module

Additional data

Power tolerance	+/- 3 %
Junction box	IP 65
Connector	MC type 1

Dimensions

A	826	mm
B	1575	mm
C	46	mm
Weight	17	kg

The modules are certified in accordance with:
IEC 61215, CE, Safety class II, TUV

The Sun Factory reserves the right to make specification changes with-