

HIT[®] photovoltaic module



The HIT cell and module have very high conversion efficiency in mass production.

HIT-N235SE10

EN

Model	Cell Efficiency	Module Efficiency	Output / m ²
HIT-N235SE10	21.1%	18.6%	186 W/m ²

Three tabs application

- Reducing electrical loss between the cell fingers and tabs
- Making the tab width thinner to expand the light receiving surface

New tab design

Anti-reflection glass

Light capturing technology

- Reducing reflection and scattering of incoming light
- Improving generated electricity levels in morning and evening times

18.6%
186 W/m²



HIT cell technology

The SANYO HIT (Heterojunction with Intrinsic Thin layer) solar cell is made of a thin mono crystalline silicon wafer surrounded by ultra-thin amorphous silicon layers. This product provides the industry's leading performance and value using state-of-the-art manufacturing techniques.

Environmentally-Friendly Solar Cell

More Clean Energy
HIT can generate more clean Energy than other conventional crystalline solar cells.

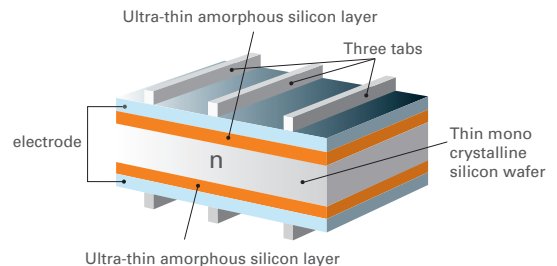
Special Features

SANYO HIT solar modules are 100% emission free, have no moving parts and produce no noise. The dimensions of the HIT modules allow space-saving installation and achievement of maximum output power possible on given roof area.

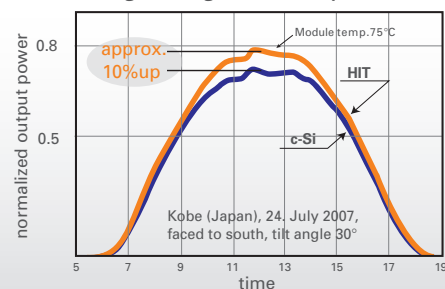
High performance at high temperatures

Even at high temperatures, the HIT solar cell can maintain higher efficiency than a conventional crystalline silicon solar cell.

HIT[®] Solar Cell Structure



Changes in generated power daytime



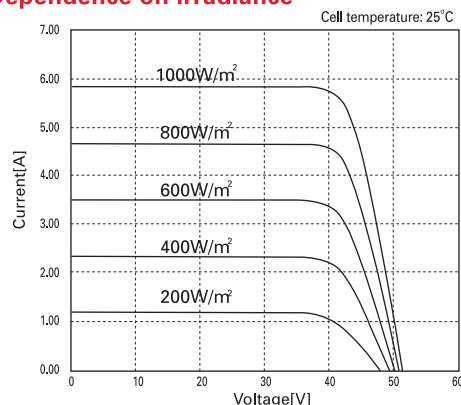
HIT[®]
Photovoltaic Module

Models HIT-N235SE10		
Electrical data		235
Maximum power (Pmax)	[W]	235
Max. power voltage (Vmp)	[V]	43.0
Max. power current (Imp)	[A]	5.48
Open circuit voltage (Voc)	[V]	51.8
Short circuit current (Isc)	[A]	5.84
Warranted minimum power (Pmin)	[W]	223.25
Maximum over current rating	[A]	15
Output power tolerance	[%]	+10/-5
Maximum system voltage	[V]	1000
Temperature coefficient of Pmax	[%/°C]	-0.30
	Voc [V/°C]	-0.130
	Isc [mA/°C]	1.75

Note 1: Standard Test Conditions: Air mass 1.5, Irradiance = 1000W/m², Cell temperature = 25°C
 Note 2: The values in the above table are nominal

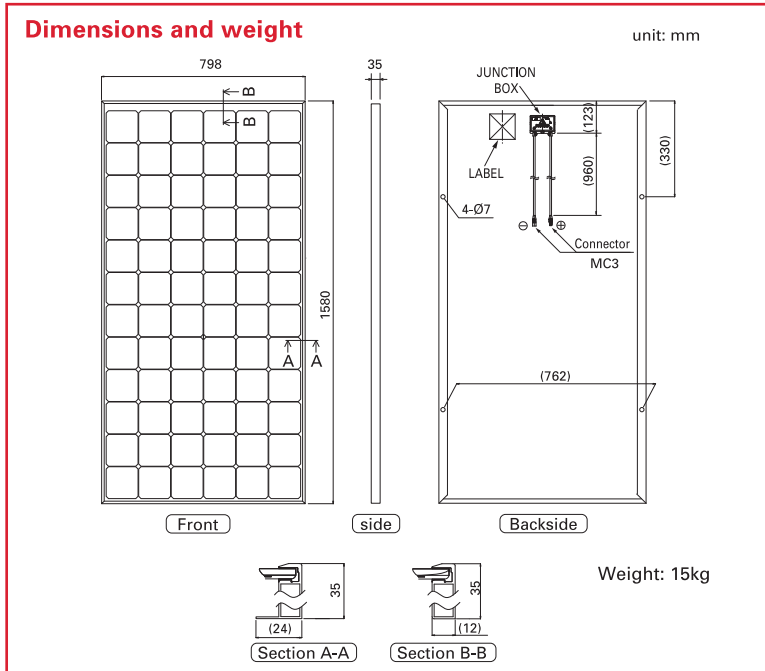
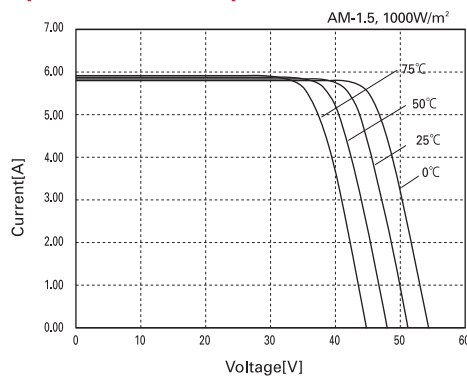
Reference data for model HIT-N235SE10

Dependence on irradiance



Reference data for model HIT-N235SE10

Dependence on temperature



Warranty

Power output: 10 years (90% of Pmin)
 25 years (80% of Pmin)
 Product workmanship: 5 years
 (Based on guarantee document)

Materials

Cell material: 5 inch HIT cells
 Glass material: AR coated tempered glass
 Frame materials: Black anodized aluminium
 Connectors type: MC3

Certificates

• Safety tested, IEC 61730
 • Periodic Inspection, IEC 61215

Electrical Protection Class II

CAUTION!

Please read the operating instructions carefully before using the products.

Due to our policy of continual improvement the products covered by this brochure may be changed without notice.

Please consult your local dealer for more information.



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 Solar Division

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