HIT®photovoltaic module





technology adaptation

Reduction of carrier recombination loss

- -Preserving as much of the generated electricity as possible
- -Realizing even higher voltage

Use resources effectively

- -By cutting the wafer almost round the HD cell produces less waste of material
- -Compact module size but highest electric generation

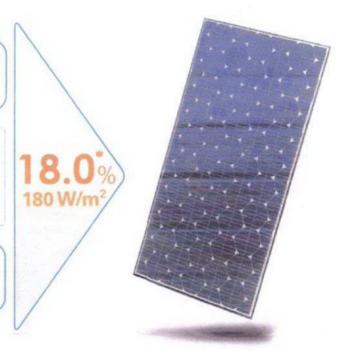
HD cell design



Reduction of optical loss

- Enabling as much incoming sunlight as possible to reach the electrical generating layer (crystalline silicon)
- -Realizing even higher current





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.

Special Features

More Clean Energy

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

Environmentally-Friendly Solar Cell

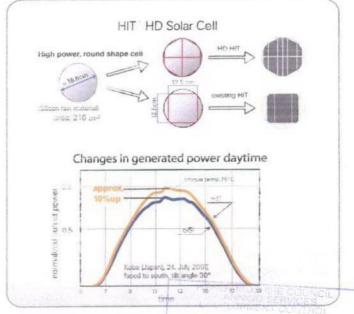
SANYO HIT solar modules are 100% emission free, have no moving parts and produce no noise. The dimensions of the HiT modules allow space-saving installation and achievement of maximum output power possible on given roof area.

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 is a registered trademark of SANYO Electric Co., Ltd. The name "HIT" comes from "Heterocuration with intensic Thin-layer" which is an original technology of SANYO Electric Co., Ltd.



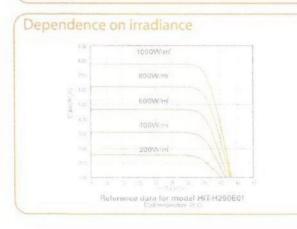
The HIT cell and module have very high conversion efficiency NOV 2011

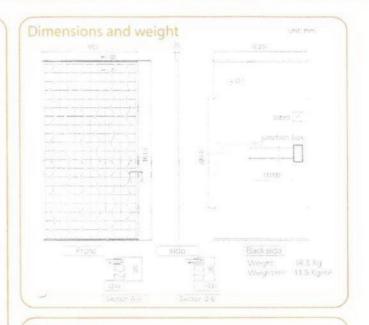
Model	Cell Efficiency	Module Efficiency	Output/m2-
HIT-H250E01	20.8%	18.0%	180 W/m²
HIT-H245E01	20.4%	17.7%	177 W/m ²



Electrical and Mechanical Characteristics HIT-H250E01, HIT-H245E01

Electrical data (at STC)	Models HIT-HxxxE01	
Liectrical data (at 31C)	250	245
Maximum power (Pmax) [W]	250	245
Max. power voltage (Vmp) [VI	34.9	34.4
Max. power current (Imp) [A]	7.18	7.14
Open circuit voltage (Voc) [V]	43.1	42.7
Shon circuit current (Isc) [A]	7.74	7.73
Maximum over current rating (A)	15	
Output power tolerance [%]	+10/-5 *	
Maximum system voltage [V]	1000	
Note: Standard Test Conditions: Air mass 1.5, Irr cell temperature = 25°C	adiance = 1000%	Mimily.
Temperature characteristics	250	245
Temperature (NOCT) [°C]	46.0	46.0
Temperature coefficient of Pmax (%/°C)	-0.30	-0.30
Temperature coefficient of Voc (V/°C)	-0.108	-0.107
Temperature coefficient of Isc [rnA/°C]	2.32	2,32
At NOCT	250	245
Maximum power (Pmax) [W]	188.9	185.4
Max. power voltage (Vmp) [V]	32.8	32.4
Max. power current (Imp) (A)	5.76	5.73
Open circuit voltage (Voc) (VI	40.5	40.1
Short circuit current (Isc) [A]	6.23	6.23
Note: Nominal Operating Cell Temperature : Air mass Air temperature = 20°C , wind apped 1 m/s	1.5 spectrom, Im	adianice < 800W
At low irradiance		245
Maximum power (Pmax) [W]	48.8	47.7
Max, power voltage (Vmp) [V]	34.1	33.6
Max. power current (Imp) [A]	1.43	1.43
Open circuit voltage (Voc) [V]	40.1	39.7
Short circuit current (Isc) [A]	1.55	1.55







Please consult your local dealer for more information.

ACAUTIONIPlease read the installation manual carefully before using the products.

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

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