

HIT-H250E01 HIT-H245E01

technology adaptation

Reduction of carrier recombination loss

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

Reduction of optical loss

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

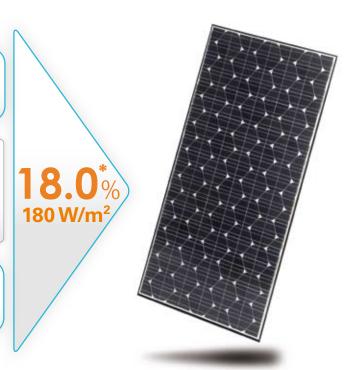
-Realizing even higher current

Antireflection glass



Use resources effectively

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



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

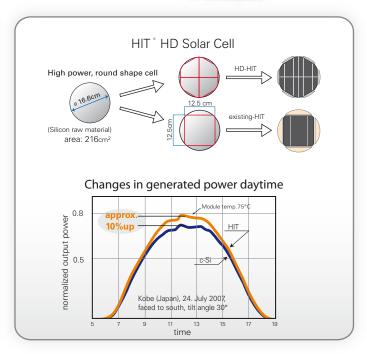
SANYO HIT solar modules are 100% emission free, have no moving parts and produce no noise. The dimensions of the HIT modules allow space-saving installation and achievement of maximum output power possible on given roof area.

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



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

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

^{*} For HIT-H250E01

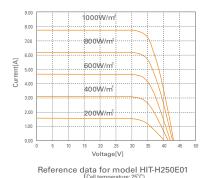


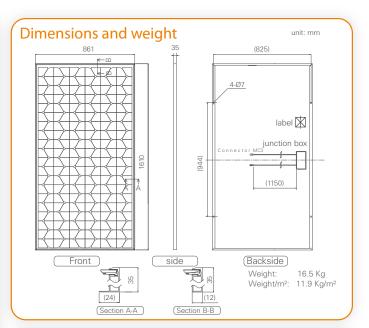
Electrical and Mechanical Characteristics HIT-H250E01, HIT-H245E01



	Madal- III	T Uses/E01
Electrical data (at STO	المناسبة	T-HxxxE01
, , , , , ,	250	245
Maximum power (Pmax) [W]	250	245
Max. power voltage (Vmp) [V]	34.9	34.4
Max. power current (Imp) [A]	7.18	7.14
Open circuit voltage (Voc) [V]	43.1	42.7
Short 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, Irra *All modules measured by SANYO facility ha Temperature characteristics		
Temperature (NOCT) [°C]	44.0	44.0
Temperature coefficient of Pmax [%/°C]	-0.30	-0.30
Temperature coefficient of Voc [V/°C]	-0.108	-0.107
Temperature coefficient of lsc [mA/°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) [V]	48.9	48.3
Short circuit current (Isc) [A]	6.23	6.23
Note: Nominal Operating Cell Temperature : Air m Air temperature = 20°C , wind speed 1 m/s	nass 1.5 spectrum, Irra	diance = 800W/m²,
At low irradiance	250	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
Note: Low irradiance: Air mass 1.5 spectrum cell temperature = 25°C	, Irradiance = 200W/	m²,

Dependence on irradiance





Guarantee

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

(Based on guarantee document)

Materials

Cell material: HIT cells

Glass material: AR coated tempered glass Frame materials: Black anodized aluminium

Connectors type: MC3

Certificates



 Safety tested, IEC 61730
Periodic Inspection IEC 61730

Electrical Protein

 ϵ

Member of



Please consult your local dealer for more information.

⚠ CAUTION!Please 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.

SANYO Component Europe GmbH Solar Division

Stahlgruberring 4 81829 Munich, Germany Tel.+49-(0)89-460095-0 Fax.+49-(0)89-460095-170 http://www.sanyo-solar.eu email: info.solar@sanyo-solar.eu

