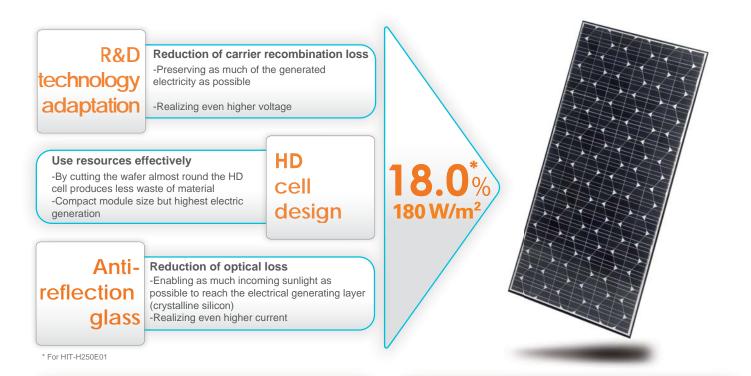
# HIT<sup>®</sup> photovoltaic module



HIT-H250E01 HIT-H245E01



## 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**

www.sanyo-solar.eu

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

### Environmentally-Friendly Solar Cell

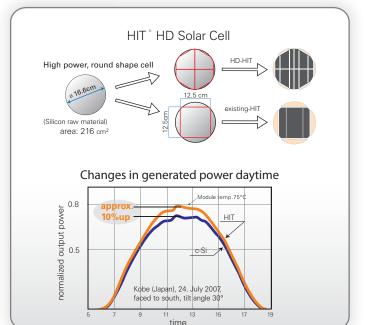
SANYO HIT solar modules are 100% emission free, have no moving parts and produce no noise. The dimensions of the HIT modules allow space-saving installation and achievement of maximum output power possible on given roof area.

### 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 "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	<b>Cell Efficiency</b>	Module Efficiency	Output / m <sup>2</sup>
HIT-H250E01	20.8%	18.0%	180 W/m <sup>2</sup>
HIT-H245E01	20.4%	17.7%	177 W/m <sup>2</sup>

# SANYO Component Europe GmbH

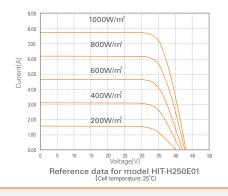


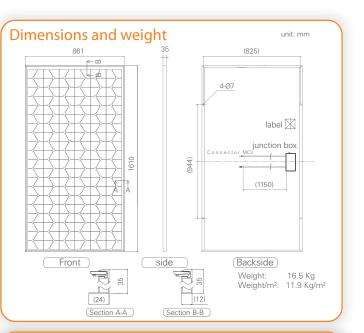
# Electrical and Mechanical Characteristics HIT-H250E01, HIT-H245E01

## Electrical data (at STC) Models HIT-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]	1	5
Output power tolerance [%]	+10/-5*	
Maximum system voltage [V]	1000	
Note: Standard Test Conditions: Air mass 1.5, cell temperature = 25°C	Irradiance = 1000V	V/m²,
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 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]	40.5	40.1
Short circuit current (Isc) [A]	6.23	6.23
Note: Nominal Operating Cell Temperature : Air ma Air temperature = 20°C , wind speed 1 m/s	ass 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 documents )

#### Materials

Cell material: Honeycomb Design HIT cells Glass material: AR coated tempered glass Frame materials: Black anodized aluminium Connector type: MC3



A 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.

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