HIT[®] photovoltaic module





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

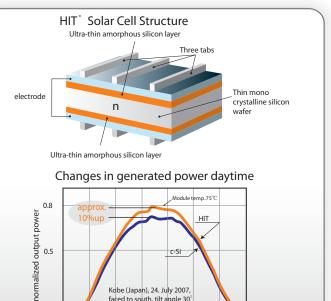
SANYO HIT solar modules are 100% emission free, have no moving parts and produce no noise. The dimensions of the HIT modules allow space-saving installation and achievement of maximum output power possible on given roof area.

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-N240SE10	21.6%	19.0%	190 W/m ²
HIT-N235SE10	21.1%	18.6%	186 W/m ²
HIT-N230SE10	20.7%	18.2%	182 W/m ²

Kobe (Japan), 24. July 2007 faced to south, tilt angle 30

time

www.sanyo-solar.eu/en

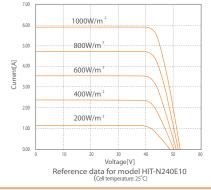
SANYO Component Europe GmbH

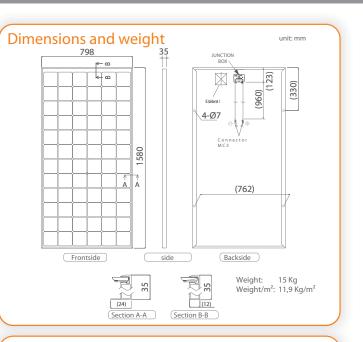


Electrical and Mechanical Characteristics HIT-N240SE10, HIT-N235SE10, HIT-N230SE10

Electrical data (at STC)	Models HIT-NxxxSE10		
	240	235	230
Maximum power (Pmax) [W]	240	235	230
Max. power voltage (Vmp) [V]	43.7	43.0	42.3
Max. power current (Imp) [A]	5.51	5.48	5.45
Open circuit voltage (Voc) [V]	52.4	51.8	51.2
Short circuit current (lsc) [A]	5.85	5.84	5.83
Maximum over current rating [A]		15	
Output power tolerance [%]	+10/-5*		
Maximum system voltage [V]		1000	
Note: Standard Test Conditions: Air mass 1.5, Irradi * All modules measured by SANYO facility have out Temperature characteristics			ture = 25°C 230
Temperature (NOCT) [°C]	44.0	44.0	44.0
Temperature coefficient of Pmax [%/°C]	-0.30	-0.30	-0.30
Temperature coefficient of Voc [V/°C]	-0.131	-0.130	-0.128
Temperature coefficient of lsc [mA/°C]	1.76	1.75	1.75
At NOCT	240	235	230
Maximum power (Pmax) [W]	182	179	175
Max. power voltage (Vmp) [V]	41.1	40.5	39.9
Max. power current (Imp) [A]	4.44	4.41	4.38
Open circuit voltage (Voc) [V]	49.4	48.9	48.3
Short circuit current (lsc) [A]	4.71	4.70	4.70
Note: Nominal Operating Cell Temperature : Air ma Air temperature = 20°C , wind speed 1 m/s	ss 1.5 spectrum	, Irradiance = 80	0W/m²,
At low irradiance	240	235	230
Maximum power (Pmax) [W]	45.9	44.7	43.8
Max. power voltage (Vmp) [V]	41.7	41.0	40.6
Max. power current (Imp) [A]	1.10	1.09	1.08
Open circuit voltage (Voc) [V]	49.0	48.4	47.8
Short circuit current (lsc) [A]	1.17	1.17	1.17
Note: Low irradiance: Air mass 1.5 spectrum, Irradia	ance = 200W/m	² , cell temperatu	re = 25°C

Dependence on irradiance





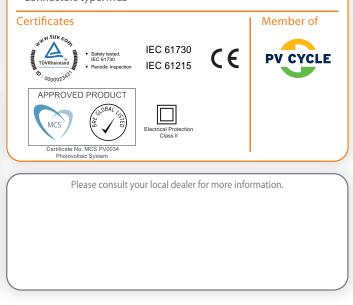
Guarantee

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



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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