HIT[®] photovoltaic module



HIT-N240SE10 HIT-N235SE10



HIT cell technology

The SANYO HIT (Heterojunction with Intrinsic Thin layer) solar cell is made of a thin monocrystalline 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

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

Special features

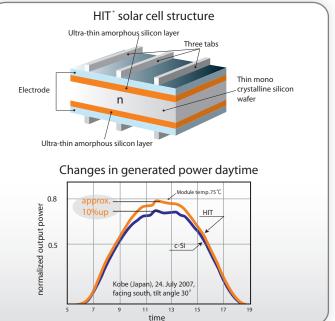
SANYO HIT solar modules are 100% emission free, have no moving parts and produce no noise. The dimensions of the HIT modules enable a space saving installation and the achievement of maximum output power possible on a given roof area.

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

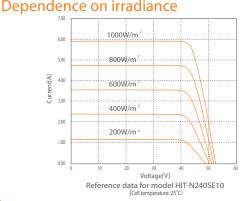
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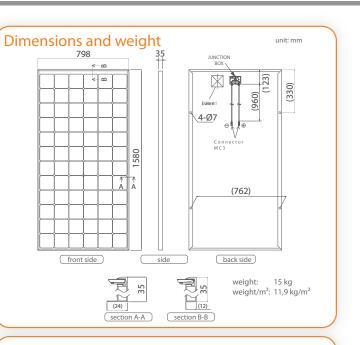
SANYO Component Europe GmbH



Electrical and Mechanical Characteristics HIT-N240SE10, HIT-N235SE10

Electrical data (at STC)	Models HIT	Models HIT-NxxxSE10	
	240	235	
Maximum power (Pmax) [W]	240	235	
Max. power voltage (Vmp) [V]	43.7	43.0	
Max. power current (Imp) [A]	5.51	5.48	
Open circuit voltage (Voc) [V]	52.4	51.8	
Short circuit current (Isc) [A]	5.85	5.84	
Maximum over current rating [A]	15		
Output power tolerance [%]	+10/-5*		
Maximum system voltage [V]	1000		
Note: Standard Test Conditions: Air mass 1.5, Irradian * All modules measured by SANYO facility have output	t with positive toler	ance	
Temperature characteristics	240 44.0	235	
Temperature (NOCT) [°C]			
Temperature coefficient of Pmax [%/°C]	-0.30	-0.30	
Temperature coefficient of Voc [V/°C]	-0.131	-0.130	
Temperature coefficient of Isc [mA/°C]	1.76	1.75	
At NOCT	240	235	
Maximum power (Pmax) [W]	182	179	
Max. power voltage (Vmp) [V]	41.1	40.5	
Max. power current (Imp) [A]	4.44	4.41	
Open circuit voltage (Voc) [V]	49.4	48.9	
Short circuit current (Isc) [A]	4.71	4.70	
Note: Nominal Operating Cell Temperature : Air mass Air temperature = 20° C , wind speed 1 m/s	1.5 spectrum, Irradi	ance = 800W/m ² ,	
At low irradiance	240	235	
Maximum power (Pmax) [W]	45.9	44.7	
Max. power voltage (Vmp) [V]	41.7	41.0	
Max. power current (Imp) [A]	1.10	1.09	
Open circuit voltage (Voc) [V]	49.0	48.4	
Short circuit current (lsc) [A]	1.17	1.17	
Note: Low irradiance: Air mass 1.5 spectrum, Irradiance	$ce = 200W/m^2$, cell te	emperature = 25°C	





Guarantee

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

(based off guarantee docume

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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