



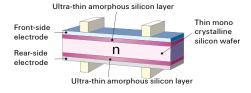
HIT[®] photovoltaic module

HIT-240HDE4 HIT-235HDE4

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.



HIT[®] Solar Cell Structure



Development of HIT[®] solar cell was supported in part by the New Energy and Industrial Technology Development Organization (NEDO).

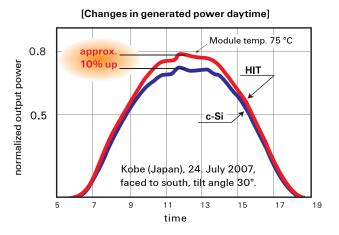
Benefit in Terms of Performance

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

Model	Cell Efficiency	Module Efficiency
HIT-240HDE4	20.0%	17.3%
HIT-235HDE4	19.6%	17.0%

High performance at high temperatures

Even at high temperatures, the HIT[®] solar cell can maintain higher efficiency than a conventional crystalline silicon solar cell.



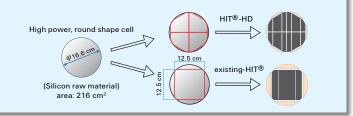
Environmentally-Friendly Solar Cell

More Clean Energy

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

A module that uses silicon resources effectively

The newly developed "Honeycomb Design" HD cell allows the maximum number of round-type, high-power cells to be arrayed in a single module.





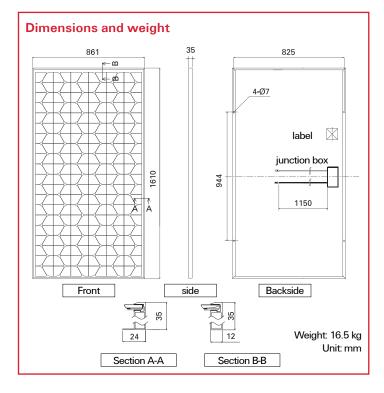


Electrical and Mechanical Characteristics HIT-240HDE4, HIT-235HDE4

	Models HIT-xxxHDE4			
Electrical data	240	235		
Maximum power (Pmax) [W]	240	235		
Max. power voltage (Vpm) [V]	35.5	35.1		
Max. power current (lpm) [A]	6.77	6.70		
Open circuit voltage (Voc) [V]	43.6	43.4		
Short circuit current (lsc) [A]	7.37	7.33		
Warranted min. power (Pmin) [W]	228.0	223.3		
Maximum over current rating [A]	15			
Output power tolerance [%]	+10/-5			
Max. system voltage [Vdc]	1000			
Temperature coeff. of Pmax [%/°C]	-0.30			
Temperature coeff. of Voc [V/°C]	-0.109	-0.109		
Temperature coeff. of lsc [mA/°C]	2.21	2.20		
Note 1: Standard test conditions: Air mass 1.5, Irradiance = 1000 W/m²,				

Cell temperature = 25 °C.

Note 2: The values in the above table are nominal.



Guarantee

Product: 5 years Power output: 10 years (90% of Pmin), 20 years (80% of Pmin) Full conditions are available on our website.

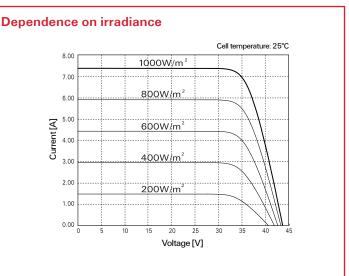
CAUTION! Please read the operating instructions carefully before using the products.

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

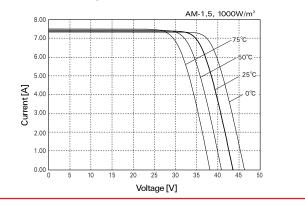
SANYO Component Europe GmbH Solar Division

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Reference data for model HIT-240HDE4



Dependence on temperature



Certificates



Qualified. IEC 6121 Safety tested, IEC 61730

IEC 61730 IEC 61215



Please consult your local dealer for more information.

SANYO Electric Co., Ltd. Solar Division