

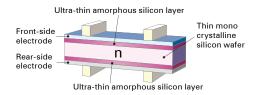
HIT Double® photovoltaic module

HIT-210DNKHE1 HIT-205DNKHE1 HIT-200DNKHE1

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.



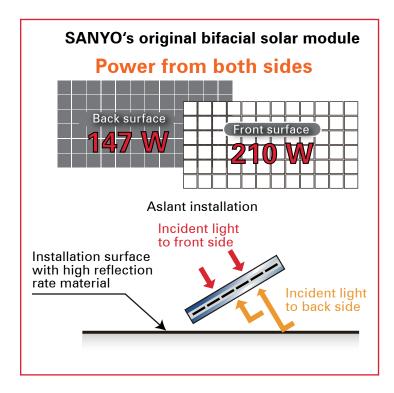
HIT® Solar Cell Structure



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

- 1. HIT Double® can generate electricity not only from its front side but also from its rear side because HIT cells have a bifacial structure.
- The annual energy yield could increase up to 26% compared to standard HIT modules.
 Conditions: Direction: South, Tilt angle: 20°, Albedo*: 64%.

*Albedo: reflection ratio from the ground.



- High performance at high temparatures
- Environmentally-Friendly Solar Cell HIT Double® module is a lead-free and 100% emission-free product.



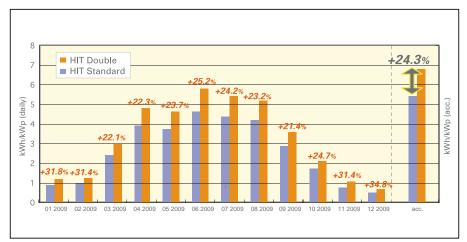


Electrical and Mechanical Characteristics HIT-210DNKHE1, HIT-205DNKHE1, HIT-200DNKHE1

To maximize the yield

- 1. Installation surface with high reflection rate material (more than 60% recommended)
- 2. No shadow cast on the rear side by mounting structure
- 3. Space between roof and the bottom of the array (50 cm recommended)

Field measurement





Module type	Standard HIT®	HIT Double®	
System output	2.10 kWp	2.00 kWp	
Roof reflection rate	64%		
Height of the array	30 cm		
Module angle	Tilt: 20°, Direction: South		
Measured period	01 2009 – 12 2009		
Location	Geilenkirchen		
Measurement system	Supervised by Fraunhofer ISE		
Installation	Pohlen Solar GmbH		

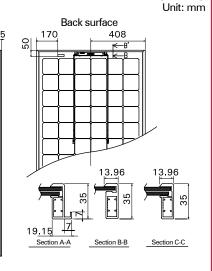
	Models HIT-xxxDNKHE1			
Electrical data	210	205	200	
Maximum power (Pmax) [W]	210	205	200	
Max. power voltage (Vpm) [V]	42.8	41.3	40.7	
Max. power current (lpm) [A]	5.00	4.97	4.92	
Open circuit voltage (Voc) [V]	51.6	50.9	50.3	
Short circuit current (lsc) [A]	5.47	5.43	5.40	
Warranted min. power (Pmin) [W]	199.5	194.8	190.0	
Back surface max. power output (Pmax) [W]	147	143	140	
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]	-0,129	-0.127	-0.126	
Temperature coeff. of lsc [mA/°C]	1.64	1.63	1.62	
Note 1:Standard test conditions: Air mass 1.5, Irradiance = 1000 W/m², Cell temperature = 25 °C.				

Front surface

Dimensions and weight

862

IEC 61730 IEC 61215



Weight: 26 kg

Member of

PV CYCLE

Guarantee

Product: 5 years

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

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

⚠ 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.

CE

Certificates

Please consult your local dealer for more information.

HIT is a registered trademark of SANYO Electric Co.,Ltd.

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-component.com



SANYO Electric Co.,Ltd. Solar Division http://www.sanvo.com/solar/

Electrical Protection