



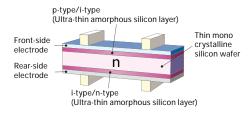
HIT photovoltaic module

HIP-215NKHE1 HIP-210NKHE1 HIP-205NKHE1

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

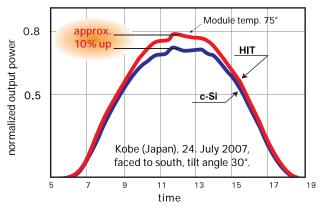
The HIT cell and module have very high conversion efficiency in mass production.

| Model | Cell Efficency | Module Efficency | |
|--------------|----------------|------------------|--|
| HIP-215NKHE1 | 19.3% | 17.1% | |
| HIP-210NKHE1 | 18.9% | 16.7% | |
| HIP-205NKHE1 | 18.4% | 16.3% | |

High performance at high temperatures

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

[Changes in generated power daytime]



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.





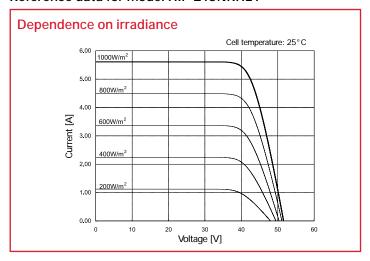
Electrical and Mechanical Characteristics HIP-215NKHE1, HIP-210NKHE1, HIP-205NKHE1

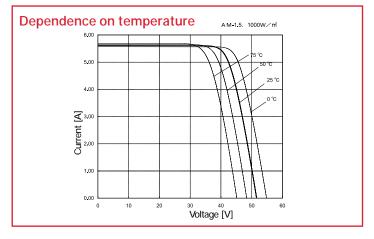
| Models HIP-xxxNKHE1 | | |
|-----------------------------------|---|---|
| 215 | 210 | 205 |
| 215 | 210 | 205 |
| 42.0 | 41.3 | 40.7 |
| 5.13 | 5.09 | 5.05 |
| 51.6 | 50.9 | 50.3 |
| 5.61 | 5.57 | 5.54 |
| 204.3 | 199.5 | 194.8 |
| 15 | | |
| Output power tolerance [%] + 10/- | | |
| 1000 | | |
| -0.30 | | |
| -0.129 | -0.127 | -0.126 |
| 1.68 | 1.67 | 1.66 |
| | 215 215 42.0 5.13 51.6 5.61 204.3 | 215 210 215 210 42.0 41.3 5.13 5.09 51.6 50.9 5.61 5.57 204.3 199.5 15 + 10/-5 1000 -0.30 -0.129 -0.127 |

Note 1: Standard test conditions: Air mass 1.5, Irradiance = 1000 W/m^2 , Cell temperature = 25 °C.

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

Reference data for model HIP-215NKHE1





Certificates

IEC 61730 IEC 61215









Please consult your local dealer for more information.

Guarantee

Power output: 20 years (80% of minimum output power) Product workmanship: 2 years (Based on contract terms)

⚠ 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.

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