HIT-N245 HIT-N240



Water drainage frame

- Rain water is drained off the module surface.
- This avoids not only water accumulation, but also water stains after drying.
- Even in low-angle installations, water drainage corners keep the module clean.

Power from both sides

- HIT® generates solar electricity simultaneously on the front and on the back side.
- This additional amount of light from the back side is combined with the light taken up by the front side of the module.





Vertically integrated factory

- Efficient production flow improves product quality as entire process from wafer to cell is done at the same location.
- No risk of damage of individual components during transportation between factories.







Technology of HIT®

Our HIT® is made of a thin monocrystalline silicon wafer surrounded by ultra-thin amorphous silicon layers. This product offers the industry's leading performance and value, using state-of-the-art manufacturing techniques. The development of the HIT® was supported in part by the New Energy and Industrial Technology Development Organization (NEDO).

Quality

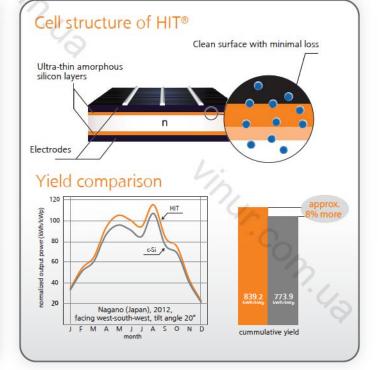
Panasonic is truly committed to quality since it began developing and manufacturing solar PV technology in 1975. Our long track record is supported by our claim-rate of only 0.0038% among all modules sold in Europe (as of August 2014).

Special features

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

High performance at high temperatures

With its very low temperature coefficient of only -0.29%/°C, our solar cell can maintain a higher efficiency than a con-ventional crystalline silicon solar cell, even at high temperatures.





"HIT" is a	registered	trademark o	of Panasonic	Group

Model	Cell efficiency	Module efficiency	Output/m ²
N245	22.0%	19.4%	194 W/m ²
N240	21.6%	19.0%	190 W/m ²

Electrical and Mechanical Characteristics N245, N240

Electrical data (at STC)

VBHN2455J25	VBHN2405J25
245	240
44.3	43.6
5.54	5.51
53.0	52.4
5.86	5.85
15	
+10/	-5*
100	00
	245 44.3 5.54 53.0

Note: Standard Test Conditions: Air mass 1.5; Irradiance = $1000W/m^2$; cell temp. $25^{\circ}C$ * All modules measured by Panasonic facilities have an output with positive tolerance. Temperature characteristics

Temperature (NOCT) [°C]	44.0	44.0
Temp. coefficient of Pmax [%/°C]	-0.29	-0.29
Temp. coefficient of Voc [V/°C]	-0.133	-0.131
Temp. coefficient of lsc [mA/°C]	1.76	1.76

At NOCT (Normal Operating Conditions)

Max. power (Pmax) [W]	187.4	183.2
Max. power voltage (Vmp) [V]	42.5	41.7
Max. power current (Imp) [A]	4.41	4.39
Open circuit voltage (Voc) [V]	50.3	49.7
Short circuit current (Isc) [A]	4.71	4.71

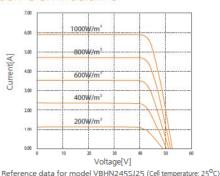
Note: Nominal Operating Cell Temp.: Air mass 1.5; Irradiance = 800W/m²; Air temperature 20°C; wind speed 1 m/s

At low irradiance (20%)

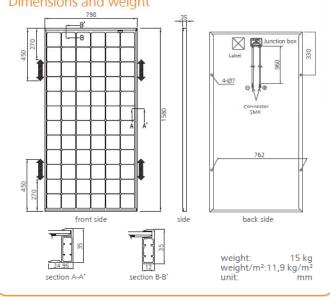
Max. power (Pmax) [W]	47.0	45.9
Max. power voltage (Vmp) [V]	43.2	42.2
Max. power current (Imp) [A]	1.09	1.09
Open circuit voltage (Voc) [V]	49.6	49.0
Short circuit current (Isc) [A]	1.17	1.17

Note: Low irradiance: Air mass 1.5; Irradiance = 200W/m²; cell temp. = 25°C

Dependence on irradiance



Dimensions and weight



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 photovoltaic cells Glass material: AR coated tempered glass Frame materials: Black anodized aluminium Connectors type: SMK

Certificates







IEC61215 IFC61730-1 IEC61730-2





Please consult your local dealer for more information.

CAUTION! Please read the installation manual carefully before using the products.

Used electrical and electronic products must not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.



