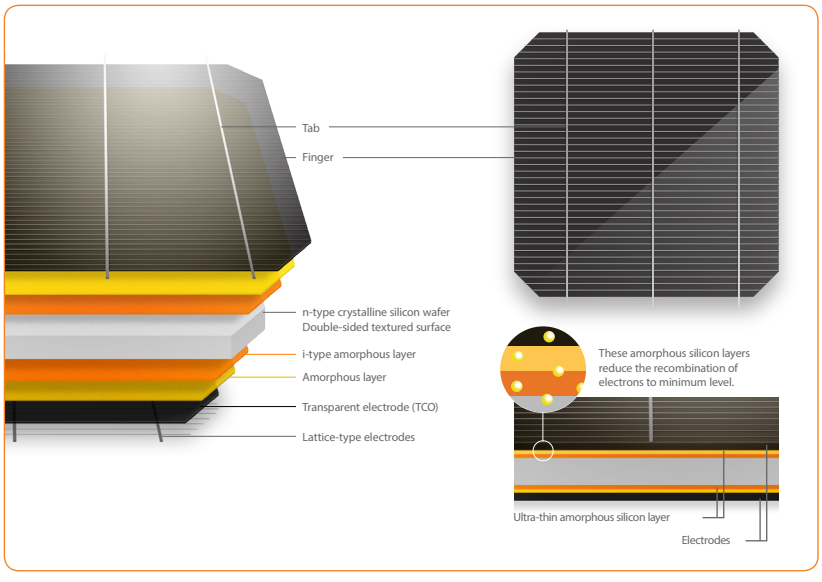
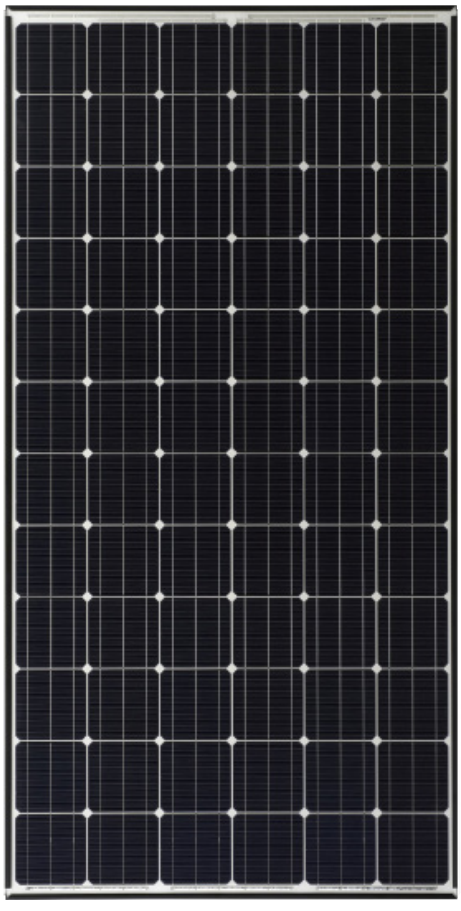
HIT®
Photovoltaic Module

Panasonic

Photovoltaic module HIT® N250 / N245

Panasonic's unique heterojunction technology uses ultra-thin amorphous silicon layers. These thin dual layers reduce losses, resulting in higher energy output than conventional panels.





Our slim Panasonic HIT® N250 features a high module efficiency of 19.8%, an industry leading temperature coefficient of -0.258% /^{0}C and a sleek design. Powerful and efficient, designed to get the most out of your roof!

Our competitive advantages

High Performance at High Temperatures
As temperature increases, HIT® continues to perform at high levels due to the industry leading temperature coefficient of -0.258% /^{0}C. No other module even comes close to our temperature characteristics. That means more energy throughout the day and particularly in summer.

25 Year Product and Performance Guarantee**
Industry leading 25 year product workmanship and performance guarantee is backed by a century old company - Panasonic.
Power output is guaranteed to 86.2% after 25 years.

Quality and Reliability
Panasonic's vertical integration, over 20 years of experience manufacturing HIT® and 20 internal tests 3-times beyond those mandated by current standards provide extreme quality assurance.

Higher Efficiency of 19.8% and compact size
Enables higher power output and greater energy yields. HIT® provides maximum production for your limited roof space.

Low Degradation
HIT "N-type" cells result in extremely Low Light Induced Degradation (LID) and zero Potential Induced Degradation (PID) which supports reliability and longevity. This technology reduces annual degradation, guaranteeing more power for the long haul.

Unique water drainage
The water drainage system gives rain, water and snow melt a place to go, reducing water stains and soiling on the panel.
Less dirt on the panel means more sunlight getting through to generate power.

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ELECTRICAL SPECIFICATIONS

Model	VBHN250SJ25	VBHN245SJ25
Maximum Power (Pmax)[1]	250 W	245 W
Maximum Power Voltage (Vpm)	44.3 V	44.3 V
Maximum Power Current (Ipm)	5.65 A	5.54 A
Open Circuit Voltage (Voc)	53.2 V	53.0 V
Short Circuit Current (Isc)	6.03 A	5,86 A
Max. Power at NOCT (Normal Operating Conditions: air mass 1.5; irradiance = 800W/m²; air temperature 20°C; wind speed 1 m/s)	191.2 W	187.3 W
Temperature Coefficient (Pmax)	-0.258 %/°C	-0.258 %/°C
Temperature Coefficient (Voc)	-0.235 %/°C	-0.235 %/°C
Temperature Coefficient (Isc)	0.055 %/°C	0.055 %/°C
NOCT	44.0 °C	44.0 °C
Module Efficiency	19.8 %	19.4 %
Maximum System Voltage	1000 V	1000 V
Series Fuse Rating	15 A	15 A
Power Tolerance (-/+)	+10%/ 0%*	+10%/ 0%*

MECHANICAL SPECIFICATIONS

Model	VBHN250SJ25 / VBHN245SJ25
Internal Bypass Diodes	3 Bypass Diodes
Module Area	1.26m²
Weight	15kg
Dimensions LxWxH	1580 mm x 798 mm x 35 mm
Cable Length +Male/-Female	960 mm / 960 mm
Cable Size / Type	No. 12 AWG / PV Cable
Connector Type	SMK
Static Wind / Snow Load	2400 Pa
Pallet Dimensions LxWxH	1607 mm x 830 mm x 1660 mm
Quantity per Pallet / Pallet Weight	40 pcs. (630 kg)
Quantity per 40' Container	560 pcs.

OPERATING CONDITIONS & SAFETY RATINGS

Model	VBHN250SJ25 / VBHN245SJ25
Operating Temperature	-40°C to 85°C
Safety & Rating Certifications	IEC61215, IEC61730-1, IEC1730-2
Fire Classification	Class Uno
Limited Guarantee	25** years workmanship and power output (linear)***

NOTE: Standard Test Conditions: Air mass 1.5; irradiance = 1000W/m²; cell temp. 25°C

* Maximum power at delivery. For guarantee conditions, please check our guarantee document.

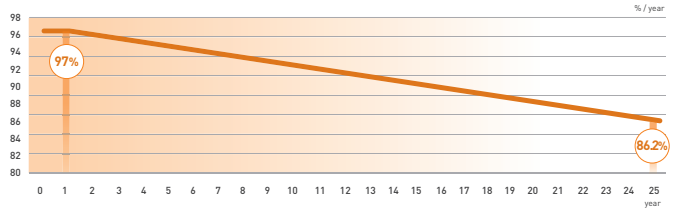
** Registration necessary on www.eu-solar.panasonic.net, otherwise 15 years apply based on guarantee document.

*** 1st year 97 %, from 2nd year -0.45 %/year, in 25th year 86.2%.

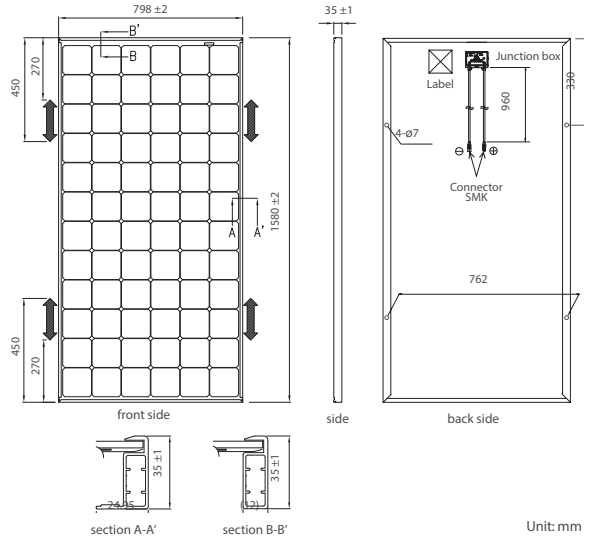
[1] STC: Cell temp. 25°C, AM1.5, 1000W/m²

NOTE: Specifications and information above may change without notice.

LINEAR PERFORMANCE GUARANTEE



DIMENSIONS



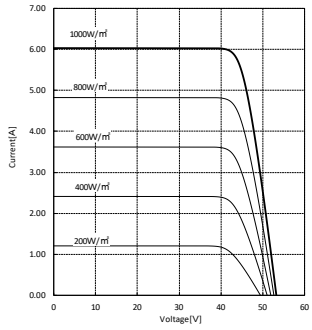
CERTIFICATES

CLASS UNO
UNI 8457
UNI 9174
UNI 9177

IEC61215
IEC61730-1
IEC61730-2

Electrical Protectio n Class II

DEPENDENCE ON IRRADIANCE



Reference data for model
VBHN250SJ25
(Cell temperature: 25°C)

⚠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.

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01/2019