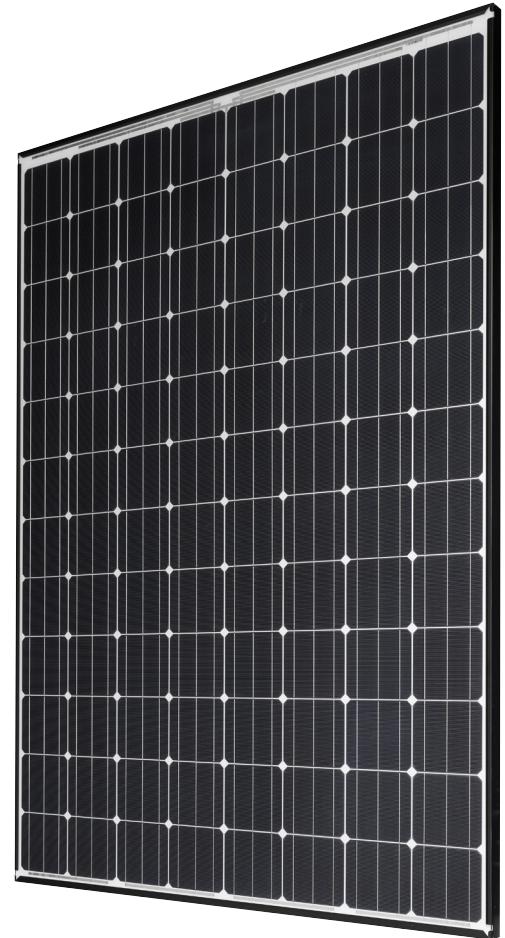
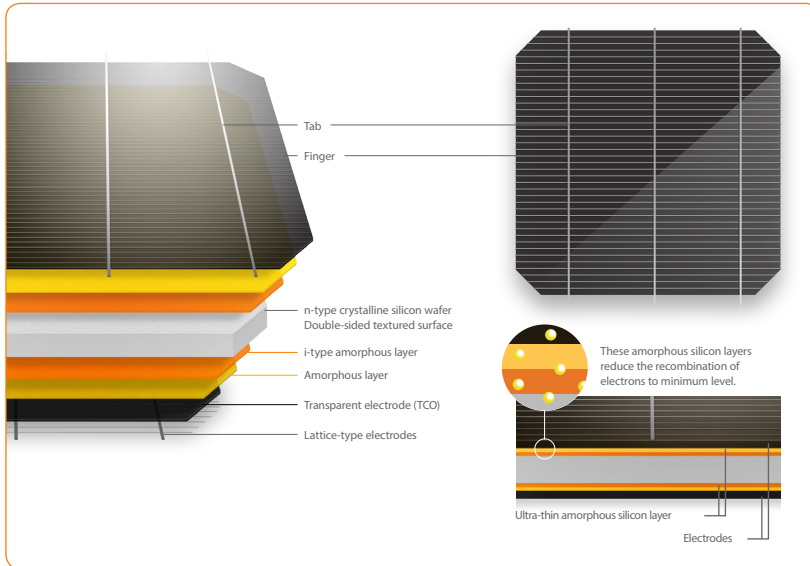


Photovoltaic module HIT[®] N330/N325

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 powerful Panasonic HIT[®] N330 features a high module efficiency of 19.7%, an industry leading temperature coefficient of $-0.258\% / ^\circ\text{C}$ 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 $-0.258\% / ^\circ\text{C}$. 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 19.7% 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.

Photovoltaic module HIT[®] N330/N325

ELECTRICAL SPECIFICATIONS

| Model | VBHN330SJ53 | VBHN325SJ53 |
|--|-------------|-------------|
| Maximum Power (Pmax) ¹ | 330W | 325W |
| Maximum Power Voltage (Vpm) | 58.0V | 57.6V |
| Maximum Power Current (Ipm) | 5.70A | 5.65A |
| Open Circuit Voltage (Voc) | 69.7V | 69.6V |
| Short Circuit Current (Isc) | 6.07A | 6.03A |
| Max. Power at NOCT (Normal Operating Conditions) | 251.9W | 249.3W |
| Temperature Coefficient (Pmax) | -0.258%/°C | -0.258%/°C |
| Temperature Coefficient (Voc) | -0.164V/°C | -0.164V/°C |
| Temperature Coefficient (Isc) | 3.34mA/°C | 3.34mA/°C |
| NOCT | 44.0°C | 44.0°C |
| Module Efficiency | 19.7% | 19.4% |
| Maximum System Voltage | 1000V | 1000V |
| Series Fuse Rating | 15A | 15A |
| Power Tolerance (-/+) | +10%/ 0%* | +10%/ 0%* |

MECHANICAL SPECIFICATIONS

| Model | VBHN330SJ53, VBHN325SJ53 |
|-------------------------------------|---|
| Internal Bypass Diodes | 4 Bypass Diodes |
| Module Area | 1.67m ² |
| Weight | 19kg |
| Dimensions LxWxH | 1590mm x 1053mm x 40 mm |
| Cable Length +Male/-Female | 1020mm/1020 mm |
| Cable Size / Type | No. 12 AWG / PV Cable |
| Connector Type | SMK |
| Static Wind / Snow Load | 5400 Pa |
| Pallet Dimensions LxWxH | 1618mm x 1071mm x 2356mm (double stack) |
| Quantity per Pallet / Pallet Weight | 48 pcs. (2x24 pcs.) (960 kg) |
| Quantity per 40' Container | 672 pcs. |

OPERATING CONDITIONS & SAFETY RATINGS

| Model | VBHN330SJ53, VBHN325SJ53 |
|--------------------------------|---|
| Operating Temperature | -40°C to 85°C |
| Safety & Rating Certifications | IEC61215, IEC61730-1, IEC1730-2 |
| Fire Classification | Class Uno (TÜV Rheinland) |
| Limited Guarantee | 25** years workmanship and power output (linear)*** |

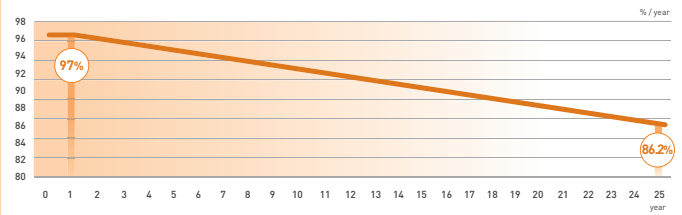
NOTE: Standard Test Conditions: Air mass 1.5; irradiance = 1000W/m²; cell temp. 25°C
 * Maximum power at delivery. For guarantee conditions, please check our guarantee document.
 ** Registration necessary on www.eu-solar.panasonic.net, otherwise 15 years apply based on guarantee document).
 *** 1st year 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.

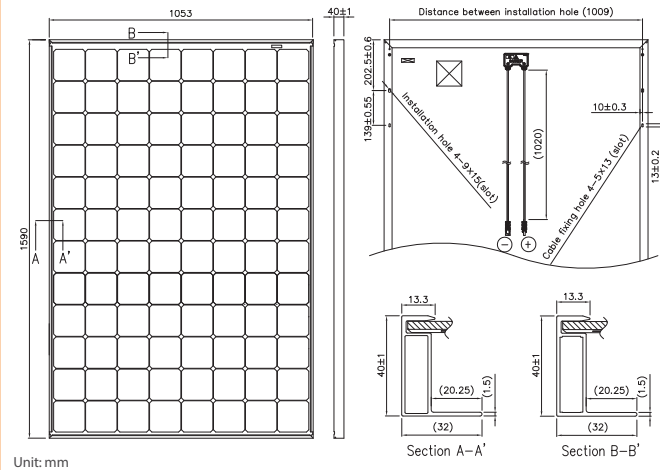
CAUTION! Please read the installation manual carefully before using the products.

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.

LINEAR PERFORMANCE GUARANTEE



DIMENSIONS



CERTIFICATES

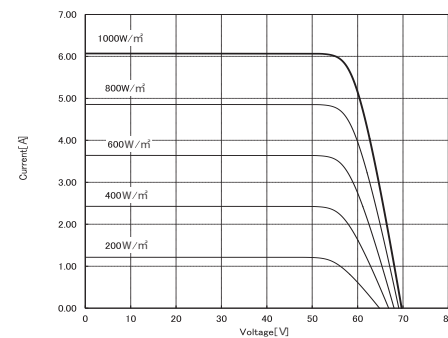
CLASS UNO
By TÜV Rheinland
UNI 8457
UNI 9174
UNI 9177



IEC61215
IEC61730-1
IEC61730-2



DEPENDENCE ON IRRADIANCE



Reference data for model: VBHN330SJ53 (Cell temperature: 25°C)