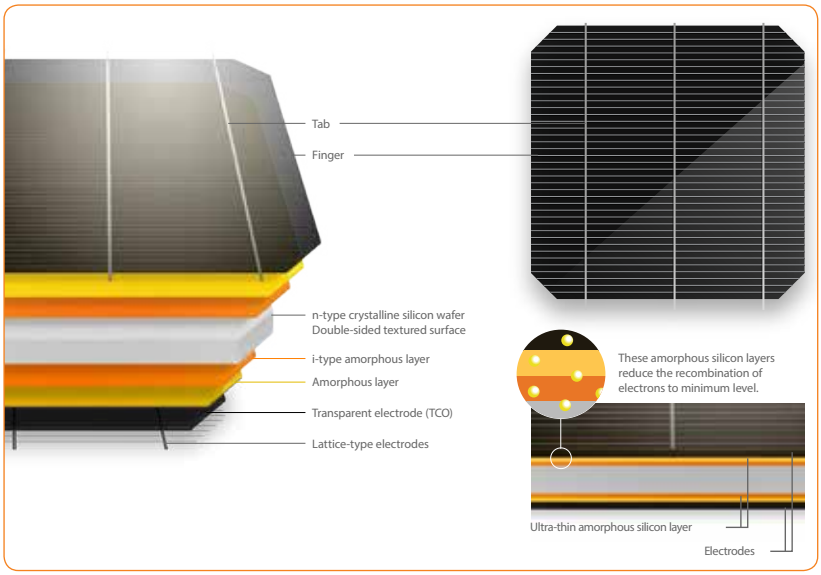
HIT® + Photovoltaic Module | HIT® Photovoltaic Module

Panasonic

# Photovoltaic modules HIT®+ (N340) HIT® (N335/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®+ N340 features a high module efficiency of 20.4%, an industry leading temperature coefficient of -0.258% /°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% /°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®, 20 internal tests and 3-times beyond those mandated by current standards provide extreme quality assurance.

### Higher efficiency of 20.4% through improved cells

Enables higher power output and greater energy yields. The HIT+ cells boast an even cleaner junction between the layers of the cells and 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.

**Enhanced Frame Design:** A 40mm frame increases durability and strength, being able to handle loads of up to 5400Pa.

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## ELECTRICAL SPECIFICATIONS

| Model | VBHN340SJ53 | VBHN335SJ53 | VBHN330SJ53 | VBHN325SJ53 |
|---|---|---|---|---|
| Maximum Power (Pmax)[1] | 340 W | 335 W | 330 W | 325 W |
| Maximum Power Voltage (Vpm) | 59.7 V | 59.4 V | 58.0 V | 57.6 V |
| Maximum Power Current (Ipm) | 5.70 A | 5.65 A | 5.70 A | 5.65 A |
| Open Circuit Voltage (Voc) | 71.3 V | 71.0 V | 69.7 V | 69,6 V |
| Short Circuit Current (Isc) | 6.13 A | 6.08 A | 6.07 A | 6,03 A |
| Module Efficiency | 20.4% | 20.0 % | 19.7 % | 19.4 % |
| Temperature Coefficient (Pmax) | -0.258 %/°C | | | |
| Temperature Coefficient (Voc) | -0.235 %/°C | | | |
| Temperature Coefficient (Isc) | 0.055 %/°C | | | |
| NOCT | 44.0°C | | | |
| Maximum System Voltage | 1000 V | | | |
| Series Fuse Rating | 15 A | | | |
| Power Tolerance (-/+) | +10%/ 0%* | | | |

## MECHANICAL SPECIFICATIONS

| Model | VBHN340SJ53, VBHN335SJ53, VBHN330SJ53, VBHN325SJ53 |
|---|---|
| Internal Bypass Diodes | 4 Bypass Diodes |
| Module Area | 1.67 m² |
| Weight | 19 kg |
| Dimensions LxWxH | 1590 mm x 1053 mm x 40 mm |
| Cable Length +Male/-Female | 1020 mm/1020 mm |
| Cable Size / Type | No. 12 AWG / PV Cable |
| Connector Type | SMK |
| Static Wind / Snow Load | 5400 Pa (Positive/Negative) |
| Pallet Dimensions LxWxH | 1618 mm x 1071 mm x 2356 mm (double stack) |
| Quantity per Pallet / Pallet Weight | 48 pcs. (2x24 pcs.) (960 kg) |
| Quantity per 40' Container | 672 pcs. |

## OPERATING CONDITIONS & SAFETY RATINGS

| Model | VBHN340SJ53, VBHN335SJ53, VBHN330SJ53, VBHN325SJ53 |
|---|---|
| Operating Temperature | -40°C to 85°C |
| Safety & Rating Certifications | IEC61215, IEC61730-1, IEC1730-2 |
| Fire Classification | Class I |
| 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.

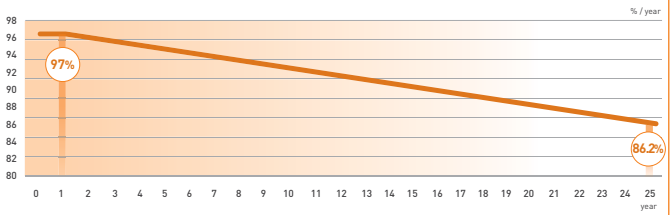
** Registration necessary on www.eu-solar.panasonic.net, otherwise 15 years apply based on guarantee document).

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

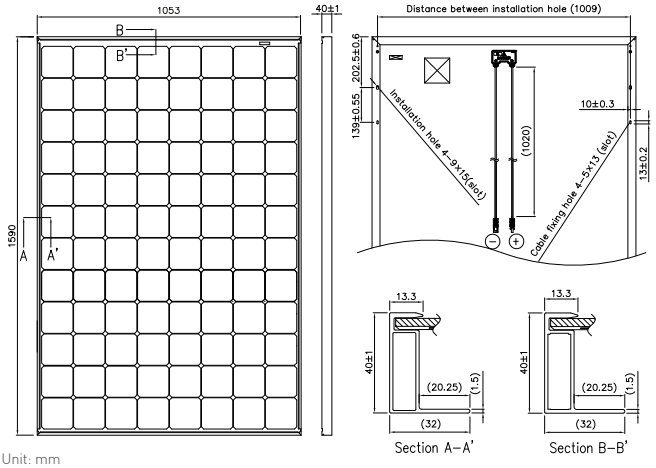
[1] STC: Cell temp. 25°C, AM1.5, 1000W/m²

**NOTE:** Specifications and information above may change without notice.

## LINEAR PERFORMANCE GUARANTEE




## DIMENSIONS




Unit: mm

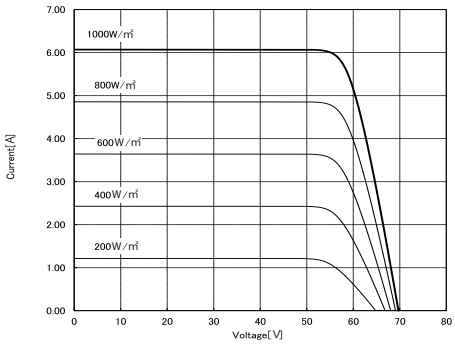
## CERTIFICATES

**CLASS I**
UNI 8457
UNI 9174
UNI 9177

IEC61215
IEC61730-1
IEC61730-2

Electrical Protectio n Class II

## DEPENDENCE ON IRRADIANCE




Reference data for model: VBHN340SJ53 (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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