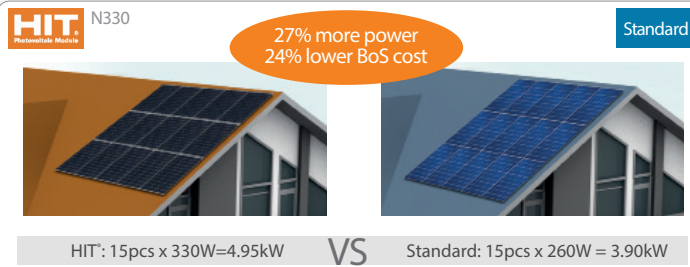


## Photovoltaic module HIT® VBHN330SJ47/ VBHN325SJ47

### 19.7% module efficiency

Enables reaching a higher output and lower specific installation and balance-of-system costs than with the same number of standard 60-cell modules.



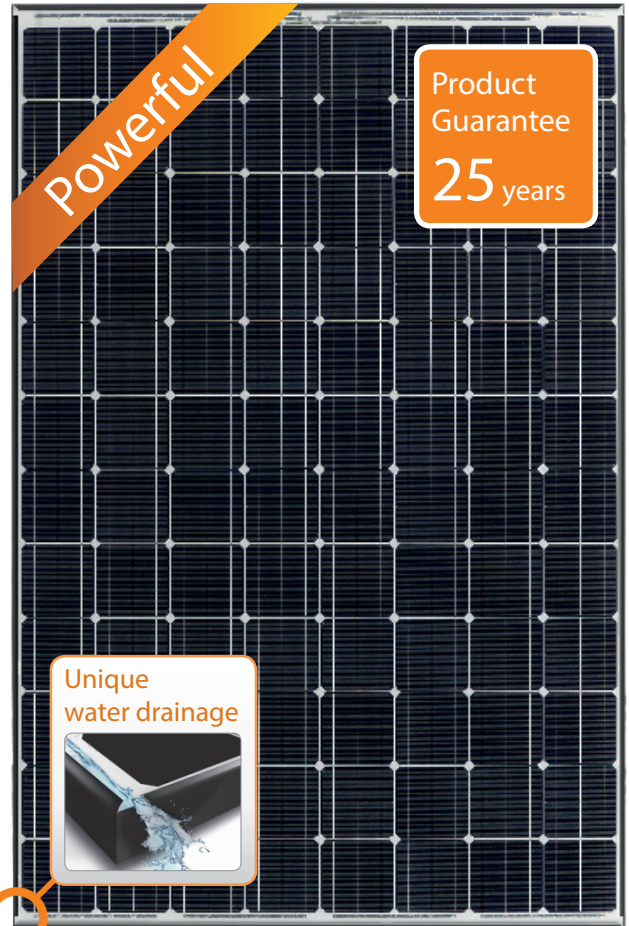
### 100% Panasonic, 100% HIT®

Proudly featuring Panasonic's original invention, the heterojunction solar cell. With over 1 billion cells produced commercially over 18 years, 25 years after the breakthrough in the development and looking back to over 40 years of experience in solar, Panasonic really offers you a 25-year guarantee you can trust.



### More energy, higher profit!

Helping you reach a higher final profit with your PV system!



## 330W/325W

High Efficiency

High Performance  
at High Temperatures

High Power  
Generation

## QUALITY PROVEN 4 WAYS

### 1 Guaranteed by Panasonic

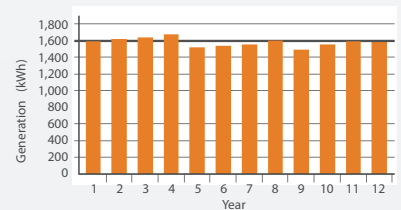
- IEC and over 20 Panasonic internal tests
- Vertically integrated own manufacturing (wafer, cell and module)



### 3 Less degradation on the field

12 years actual data prove a reliable and stable performance.

Installation: March 2004  
Location: Gloucestershire, UK  
Model: HIP-180BE  
System size: 1.80 kWp  
Tilt: 40 deg.  
Direction: South-West



### 2 Record low claim rate

Less than 0.0035% failure rate after more than 10 years experience in Europe (as of January 2017)

### 4 3rd party verified

- Lifecycle testing (Long-Term-Sequential-Test) by TÜV Rheinland (tested on VBHN240SE10)
- PID-free (tested by Fraunhofer Institute)

HIT® is a registered trademark of Panasonic Group.

### Electrical data (at STC)

	VBHN330SJ47	VBHN325SJ47
Max. power (Pmax) [W]	330	325
Max. power voltage (Vmp) [V]	58.0	57,6
Max. power current (Imp) [A]	5.70	5,65
Open circuit voltage (Voc) [V]	69.7	69,6
Short circuit current (Isc) [A]	6.07	6,03
Max. over current rating [A]	15	15
Power tolerance [%] *	+10/-0	+10/-0
Max. system voltage [V]	1000	1000
Solar panel efficiency [%]	19.7	19,4

Note: Standard Test Conditions: Air mass 1.5; Irradiance = 1000W/m<sup>2</sup>; cell temp. 25°C  
\* Maximum power at delivery.

### Temperature characteristics

	VBHN330SJ47	VBHN325SJ47
Temperature (NOCT) [°C]	44.0	44.0
Temp. coefficient of Pmax [%/°C]	-0.258	-0.258
Temp. coefficient of Voc [V/°C]	-0.164	-0.164
Temp. coefficient of Isc [mA/°C]	3.34	3.32

### At NOCT (Normal Operating Conditions)

	VBHN330SJ47	VBHN325SJ47
Max. power (Pmax) [W]	251.9	249.3
Max. power voltage (Vmp) [V]	56.3	56.1
Max. power current (Imp) [A]	4.54	4.52
Open circuit voltage (Voc) [V]	65.8	65.9
Short circuit current (Isc) [A]	4.89	4.88

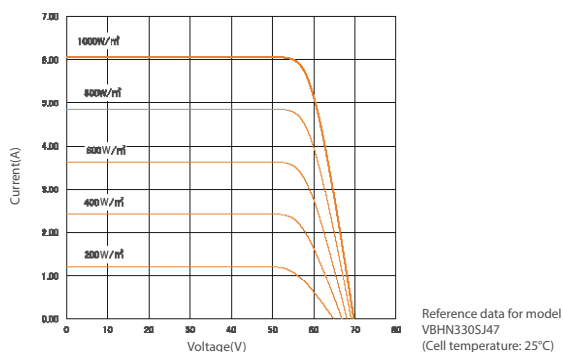
Note: Normal Operating Cell Temp.: Air mass 1.5; Irradiance = 800W/m<sup>2</sup>;  
Air temperature 20°C; wind speed 1 m/s

### At low irradiance (20%)

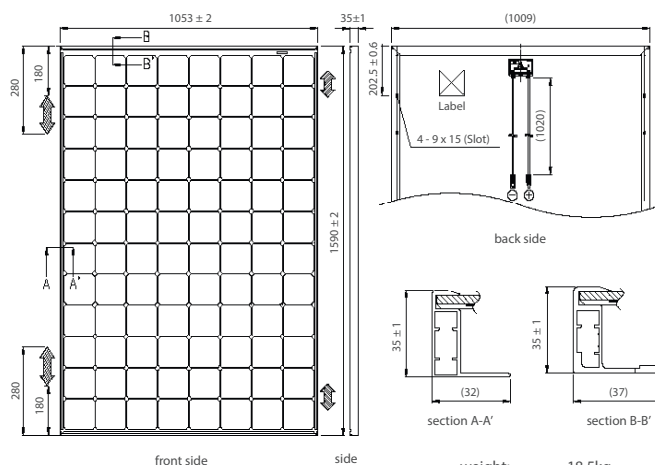
	VBHN330SJ47	VBHN325SJ47
Max. power (Pmax) [W]	63.5	62.3
Max. power voltage (Vmp) [V]	57.0	56.4
Max. power current (Imp) [A]	1.12	1.11
Open circuit voltage (Voc) [V]	65.6	65.3
Short circuit current (Isc) [A]	1.22	1.21

Note: Low irradiance: Air mass 1.5; Irradiance = 200W/m<sup>2</sup>; cell temp. = 25°C

### Dependence on irradiance



### Dimensions and weight



weight: 18.5kg  
weight/m<sup>2</sup>: 11.3 kg/m<sup>2</sup>  
unit: mm  
snow and wind load: 2400 Pa

### Guarantee

Power output: 10 years (90% of Pmin)  
25 years (80% of Pmin)  
Product workmanship: 25 years (registration necessary on [www.eu-solar.panasonic.net](http://www.eu-solar.panasonic.net), otherwise 15 years apply 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



**CLASS UNO**  
By TÜV Rheinland  
UNI 8457  
UNI 9174  
UNI 9177

IEC61215  
IEC61730-1  
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.



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Panasonic Electric Works Europe AG

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05/2017