



### 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.



N330 / N325 / N320

27% More Power

Standard\*



HIT™: 15pcs x 330W=4.95kW VS Standard\*: 15pcs x 260W = 3.90kW

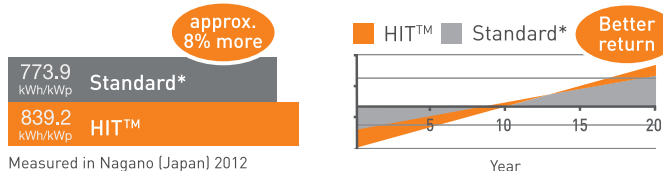
### 100% Panasonic, 100% HIT™

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!



Standard\*: Conventional crystalline module with Pmax 260W



## 330W / 325W / 320W

High Efficiency

High Performance  
at High Temperatures

High Power  
Generation

## QUALITY PROVEN 4 WAYS

### 1 Panasonic Quality

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



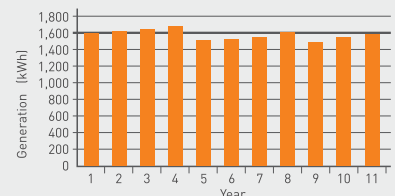
### 2 Record low claim rate

Less than 0.005% failure rate after more than 10 years experience in Europe (as of September 2015)

### 3 Less degradation on the field

11 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



### 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 trademark of Panasonic Group.

### Electrical data (at STC)

	VBHN330SJ47	VBHN325SJ47	VBHN320SJ47
Max. power (Pmax) [W]	330	325	320
Max. power voltage (Vmp) [V]	58.0	57.6	57.3
Max. power current (Imp) [A]	5.70	5.65	5.59
Open circuit voltage (Voc) [V]	69.7	69.6	69.4
Short circuit current (Isc) [A]	6.07	6.03	5.98
Max. over current rating [A]	15		
Power tolerance [%]	+10/-0 *		
Max. system voltage [V]	1000		
Solar Panel efficiency [%]	19.7	19.4	19.1

Note: Standard Test Conditions: Air mass 1.5; Irradiance = 1000W/m<sup>2</sup>; cell temp. 25°C  
 \* Maximum power at delivery. For guarantee conditions, please check our guarantee document.

### Temperature characteristics

Temperature (NOCT) [°C]	44.0	44.0	44.0
Temp. coefficient of Pmax [%/°C]	-0.29	-0.29	-0.29
Temp. coefficient of Voc [V/°C]	-0.174	-0.174	-0.174
Temp. coefficient of Isc [mA/°C]	1.82	1.81	1.79

### At NOCT (Normal Operating Conditions)

Max. power (Pmax) [W]	251.9	247.8	243.6
Max. power voltage (Vmp) [V]	56.3	55.9	55.5
Max. power current (Imp) [A]	4.54	4.50	4.45
Open circuit voltage (Voc) [V]	65.8	65.7	65.5
Short circuit current (Isc) [A]	4.89	4.86	4.82

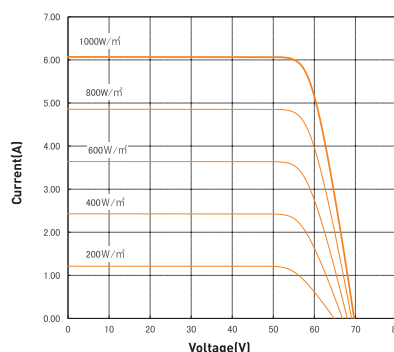
Note: Normal Operating Cell Temp.: Air mass 1.5; Irradiance = 800W/m<sup>2</sup>;  
 Air temperature 20°C; wind speed 1 m/s

### At low irradiance (20%)

Max. power (Pmax) [W]	63.5	62.3	61.0
Max. power voltage (Vmp) [V]	57.0	56.4	55.9
Max. power current (Imp) [A]	1.12	1.10	1.09
Open circuit voltage (Voc) [V]	65.6	65.3	64.9
Short circuit current (Isc) [A]	1.22	1.21	1.20

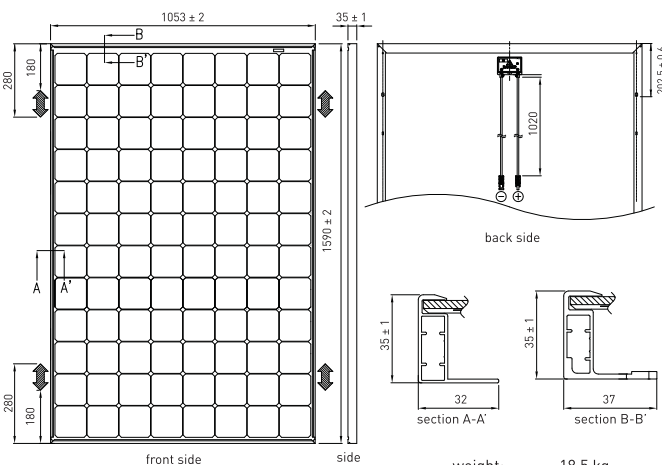
Note: Low irradiance: Air mass 1.5; Irradiance = 200W/m<sup>2</sup>; cell temp. = 25°C

### Dependence on irradiance



Reference data for model  
 VBHN330SJ47  
 (Cell temperature: 25°C)

### Dimensions and weight



weight: 18,5 kg  
 weight/m<sup>2</sup>: 11,3 kg/m<sup>2</sup>  
 unit: mm  
 Snow and Wind Load: 2400 Pa

### Warranty

Power output: 10 years (90% of Pmin), 25 years (80% of Pmin)  
 Product workmanship: 10 years (based on warranty document)

### Materials

Cell material: 5 inch photovoltaic cells  
 Glass material: AR coated tempered glass  
 Frame materials: Black anodized aluminium  
 Connectors type: SMK

### Certificates



IEC61215  
 IEC61730-1  
 IEC61730-2



Please consult your local dealer for more information

**Homemaint.in**

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**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.

**Panasonic Corporation Eco Solutions Company**

<http://panasonic.net/ecosolutions/solar>

**Panasonic**