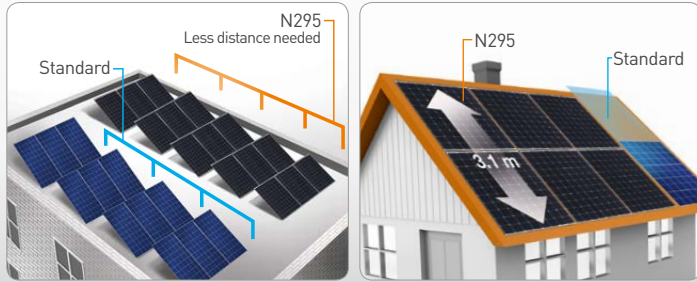


Photovoltaic module HIT® VBHN295SJ46 / VBHN285SJ46

Only 1.46 m tall

More power on your roof thanks to best fit in portrait due to shorter module length and less space between module rows on flat roofs.



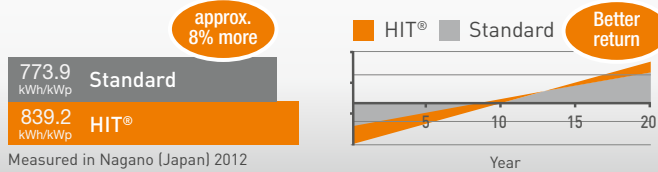
100% Panasonic, 100% HIT®

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!



295W / 285W

High Efficiency

High Performance at High Temperatures

High Power Generation



Unique water drainage

QUALITY PROVEN 4 WAYS

1 Guaranteed by Panasonic

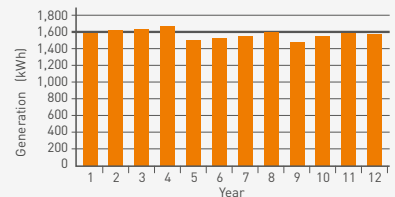
- IEC and over 20 Panasonic internal tests
- Vertically integrated own manufacturing (wafer, cell and module)



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

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)

	VBHN295J46	VBHN285J46
Max. power (Pmax) [W]	295	285
Voltage at Max. Power (Vmp)[V]	52.7	52.0
Current at Max. Power (Imp)[A]	5.60	5.49
Open circuit voltage (Voc) [V]	63.7	63.5
Short circuit current (Isc) [A]	6.00	5.91
Max. over current rating [A]	15	
Power tolerance [%] *	+10/-0	
Max. system voltage [V]	1000	
Solar Panel efficiency [%]	19.1	18.5

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

Temperature characteristics

	VBHN295J46	VBHN285J46
Temperature (NOCT) [°C]	44.0	44.0
Temp. coefficient of Pmax [%/°C]	-0.29	-0.29
Temp. coefficient of Voc [V/°C]	-0.159	-0.159
Temp. coefficient of Isc [mA/°C]	1.80	1.77

At NOCT (Normal Operating Conditions)

	VBHN295J46	VBHN285J46
Max. power (Pmax) [W]	224.3	216.8
Max. power voltage (Vmp) [V]	50.8	50.2
Max. power current (Imp) [A]	4.48	4.38
Open circuit voltage (Voc) [V]	60.2	59.9
Short circuit current (Isc) [A]	4.83	4.76

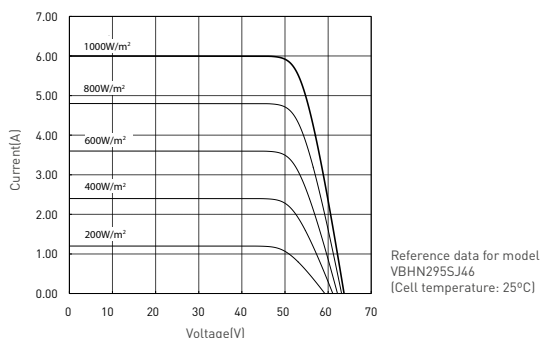
Note: Normal Operating Cell Temp.: Air mass 1.5; Irradiance = 800W/m²; Air temperature 20°C; wind speed 1 m/s

At low irradiance (20%)

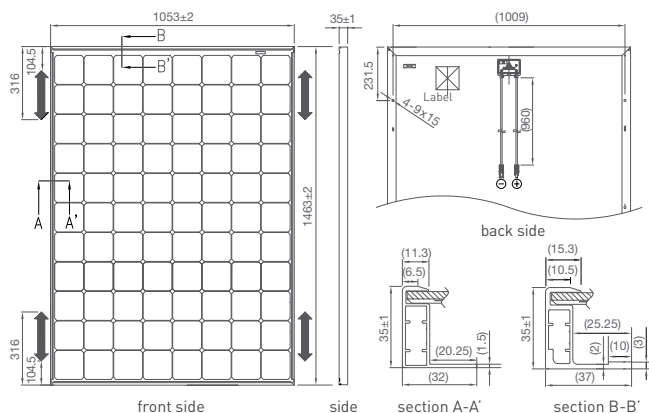
	VBHN295J46	VBHN285J46
Max. power (Pmax) [W]	56.8	54.4
Max. power voltage (Vmp) [V]	51.5	50.3
Max. power current (Imp) [A]	1.10	1.08
Open circuit voltage (Voc) [V]	59.7	59.1
Short circuit current (Isc) [A]	1.20	1.18

Note: Low irradiance: Air mass 1.5; Irradiance = 200W/m²; cell temp. = 25°C

Dependence on irradiance



Dimensions and weight



weight: 18 kg
weight/m²: 11.7 kg/m²
unit: mm
Snow and Wind Load : 2400 Pa

Fixing span must be between 836-1200 mm

Guarantee

Power output: 10 years (90% of Pmin)
25 years (80% of Pmin)
Product workmanship: 15 years (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

Fire tested
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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09/2016