Panasonic

Photovoltaic module HIT™ VBHN330SJ47 / VBHN325SJ47 / VBHN320SJ47

高效能

高效率





HITTM: 15pcs x 330W=4.95kW VS Standard*: 15pcs x 260W = 3.90kW

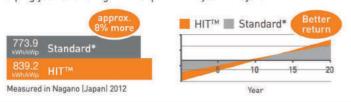
100% Panasonic, 100% HIT™

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



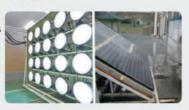
330W / 325W / 320W



QUALITY PROVEN 4 WAYS

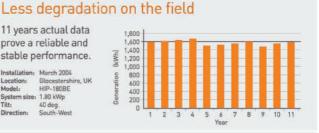
Guaranteed by Panasonic

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



11 years actual data prove a reliable and stable performance.

Location: Glocesters Model: HIP-180BE System size: 1.80 kWp



Record low claim rate

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

3rd Party verified

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

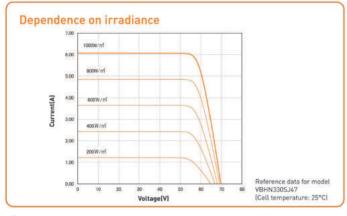
HIT™ is a trademark of Panasonic Group.

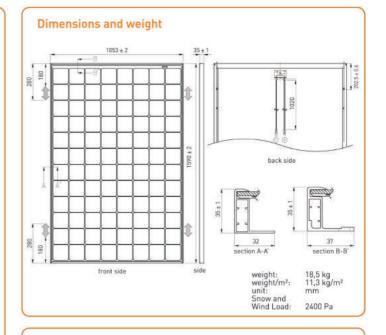


Electrical and Mechanical Characteristics

VBHN330SJ47, VBHN325SJ47, VBHN320SJ47

	VBHN330SJ47	VBHN325SJ47	VBHN320SJ4
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 * Maximum power at delivery. For guarantee			
Temperature characteristics			920.90
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 lsc [mA/°C]	1.82	1.81	1.79
At NOCT (Normal Operating Condit	tions)		
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 mas Air temperature 20°C; wind speed 1 m/s	s 1.5; Irradiance =	800W/m²;	
At low irradiance (20%)	1		
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





Guarantee

Power output: 10 years (90% of Pmin), 25 years

(80% of Pmin)

Product workmanship: 10 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





IEC61215 IEC61730-1 IEC61730-2





Please consult your local dealer for more information

10557台北市敦化南路一段21號7樓之4

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 \triangle 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

