Panasonic

N 285



Photovoltaic module HIT® VBHN285SJ40

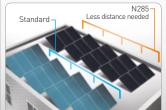
Closest to 4kW

Just 14 panels to reach 3.99kWp and secure the highest FiT rate in GB



Compact size

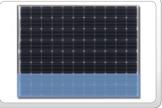
Best fit in portrait due to shorter module length. Less space needed between module rows on flat roofs





Improved shading performance

Featuring 4 shading zones instead of 3



Unique water drainage

on each corner for an improved self-cleaning





285 W

High Efficiency

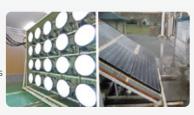
High Performance at High Temperatures

High Power Generation

QUALITY PROVEN 4 WAYS

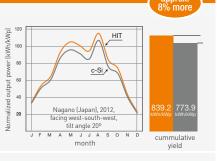
Guaranteed by Panasonic

- IEC and over 20 Panasonic internal tests
- 40 years experience, longer than our 25 years Guarantee



Higher yield on field test

8% more yield than standard c-Si solar modules



🤈 | Record low claim rate

0.0038 % failure rate after more than 10 years experience in Europe (as of Jan.2015)

3rd Party verified

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

HIT® is a registered trademark of Panasonic Group.



Photovoltaic module HIT®

VBHN285SJ40
285
52.0
5.49
63.5
5.91
15
+10/-5 *
1000
13pcs

Note: Standard Test Conditions: Air mass 1.5; Irradiance = 1000W/m2; cell temp. 25°C * All modules measured by Panasonic facilities have an output with positive tolerance

Temperature characteristics

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

At NOCT (Normal Operating Conditions)

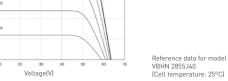
1	Max. power (Pmax) [W]	223
1	Max. power voltage (Vmp) [V]	48.5
ı	Max. power current (Imp) [A]	4.65
(Open circuit voltage (Voc) [V]	55.9
9	Short circuit current (Isc) [A]	4.75

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%)

	Max. power (Pmax) [W]	53.6			
	Max. power voltage (Vmp) [V]	47.1			
	Max. power current (Imp) [A]	1.14			
	Open circuit voltage (Voc) [V]	59.1			
	Short circuit current (Isc) [A]	1.18			
	ll temp. = 25°C				

Dependence on irradiance



Dimensions and weight Back side Side Section A-A Section B-B weight: weight/m²: 18 kg 11,7 kg/m² unit: Snow and mm Fixing span must be between 600-1100mm 2400 Pa Wind Load

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





IEC6**1**215 IEC61730-1 IEC61730-2

CE

Please consult your local dealer for more information

A 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, ${\tt please\ take\ them\ to\ applicable\ collection\ points\ in\ accordance\ with\ your\ national\ legislation.}$





Voltage(V)

