

Panasonic

高效能

高效率

HIT Double 225 Photovoltaic Module

Power per Square Foot up to 19.3 Watts



Brezeway: El Solutions Burbank, CA



Patio Awning: Solar Living Design Lakewood, CO



High Efficiency

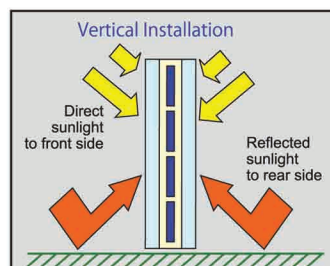
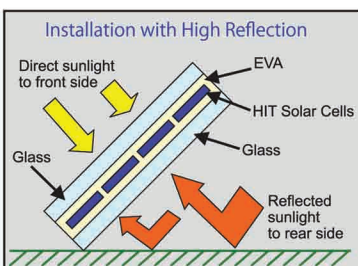
HIT® Double bifacial solar panels are the World leaders in sunlight conversion efficiency, helping customers to enjoy the maximum power per square foot from available space.

Power Guarantee

Panasonic guarantees customers will receive 100% of the panel's rated power (or more) at the time of purchase, enabling owners to generate more kWh per rated watt.

Bifacial Effect

The back face of HIT Double solar panels generates electricity from ambient light reflected off surrounding surfaces, and combines with power from the front face of the panel. Dependant upon system design and site albedo, this results in up to 30% higher power generation (more kWh) per square foot.



Application Possibilities

- Architectural, Awnings, Balconies, Bus Shelters, BIPV
- Deck & Porch Coverings, Canopies, Carports, Facades
- Fences, Siding, Trellises, Tracking Systems

Proprietary Technology

HIT bifacial solar cells are hybrids of single crystalline silicon surrounded by ultra-thin amorphous silicon layers, available solely from Panasonic.

High Temperature Performance

As temperatures rise, HIT Double solar panels produce more electricity than conventional solar panels at the same temperature, for good performance in high temperature sites.

Quality Products

Panasonic is truly committed to quality since it began developing and manufacturing solar PV in 1975. Since pioneering, developing and launching HIT Solar cells in the 1990s, we have been the technology leader, and for decades many satisfied customers have placed their trust in the competence of our unique HIT Technology.

Brilliant Aesthetics

The HIT Double sets a new aesthetic standard in photovoltaic system design. With a double glass structure that allows brilliant light and shadows to shine through the panels, the solar cells truly appear to be floating in the air. Both residential and commercial customers will enjoy new architectural possibilities using the HIT Double.

Electrical Specifications

Model: VBHN225DA02	STC	Specifications Including Backside Irradiation Contribution in ISC as a Percent of STC					
		5%	10%	15%	20%	25%	30%
Rated Power (Pmax) ¹	225 W	236 W	247 W	259W	269W	280 W	291 W
Maximum Power Voltage (Vpm)	43.2 V	43.7 V	43.7V	43.7 V	43.6 V	43.6V	43.6V
Maximum Power Current (Ipm)	5.21A	5.42A	5.67 A	5.93A	6.18 A	6.43 A	6.68 A
Open Circuit Voltage (Voc)	52.4 V	52.5 V	52.6 V	52.7 V	52.8 V	52.9V	53.0 V
Short Circuit Current (Isc)	5.54 A	5.82 A	6.09 A	6.37 A	6.65 A	6.92 A	7.20 A
Max. System Voltage (Vsys)	600 V	—	—	—	—	—	—
Series Fuse Rating	15 A	—	—	—	—	—	—
Temperature Coefficient (Pmax)	-0.30 % / °C	—	—	—	—	—	—
Temperature Coefficient (Voc)	-0.25 % / °C	—	—	—	—	—	—
Temperature Coefficient (Isc)	-0.03 % / °C	—	—	—	—	—	—
Warranted Tolerance	-0%/+10	—	—	—	—	—	—
Cell Efficiency	20.1%	—	—	—	—	—	—
Module Efficiency	16.0%	—	—	—	—	—	—
Power per Square Foot	14.9 W	15.6 W	16.3 W	17.1 W	17.8 W	18.5 W	19.3 W

Note: Temperature Coefficient is tentative specification and may be subjected to change in the future.

Mechanical Specifications

Internal Bypass Diodes	3 Bypass Diodes
Module Area	15.11 Ft ²
Module Weight	53.0 Lbs. (24 kg)
Module Dimensions LxWxH	64.2 x 33.9 x 1.4 in. (1630 x 862 x 35 mm)
Cable Lengths	53.9/ 53.9 inch (1370/ 1370 mm)
Cable Size / Type	12 AWG / Follex UL
Static Wind/ Snow Load	50PSF(2400Pa)/ 112PSF(5400Pa) *Mount on long side only
Pallet Dimensions LxWxH	65.2 x 34.6 x 5.9 in. (1657 x 879 x 150 mm)
Quantity per Pallet/ Pallet weight	36 pcs / 1940lb (880kg)
Quantity per 20ft/40ft Container	216 pcs./ 504 pcs.

Safety Rating & Limited Warranty

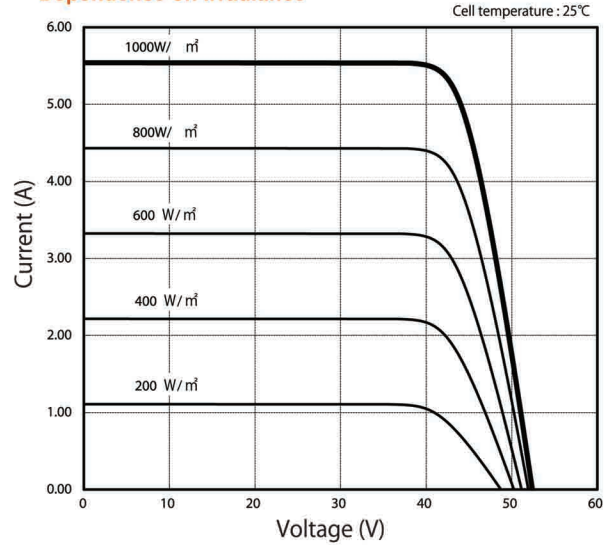
Ambient Operating Temperature	-4F° to 104F° (-20°C~+40°C)
Hail Safety Impact Velocity	1" hailstone (25 mm) at 52 mph (23 m/s)
Fire Safety Classification	Class C
Safety & Rating Certifications	UL 1703, cUL, CEC(under going)
Limited Warranties	10Years Workmanship / 25 Years Power Output

¹Standard Test Conditions: Cell Temperature 25°C, Air Mass 1.5, 1000 W/m²
²Equivalent module efficiency, including power from the back face.
Note: Specifications and information above may change without notice.

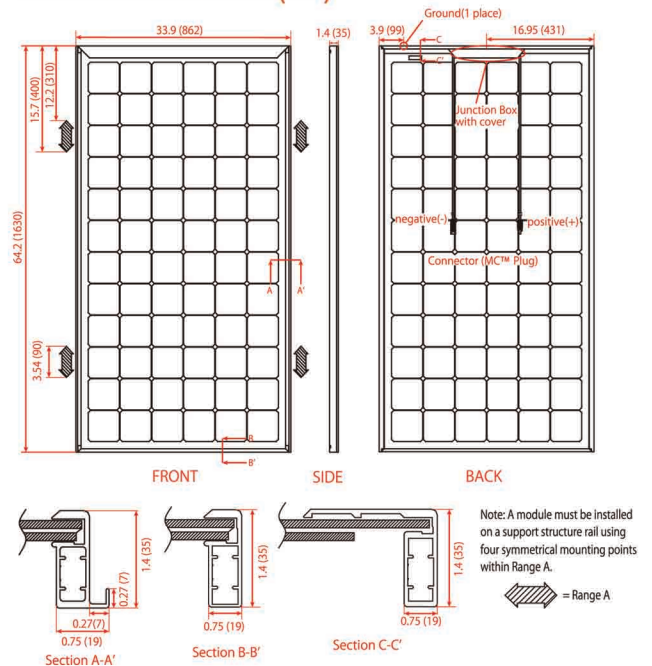
To Maximize Power

1. Elevate panels above a surface as much as possible.
2. Place panels over light-colored surfaces.
3. Do not allow support rails to shade the panel's back face.

Dependence on Irradiance



Dimensions Unit : inches (mm)



IMPORTANT: The rated power of HIT® Double bifacial solar panels is measured under Standard Test Conditions (STC). STC does not account for power produced from the back face of panels. Therefore, HIT Double panels will produce more power than their STC rating, up to 30% more, depending upon the system design and site albedo. Account for the additional power when sizing, selecting system components and wiring.

CAUTION! Please read the installation manual carefully before using the products.

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