

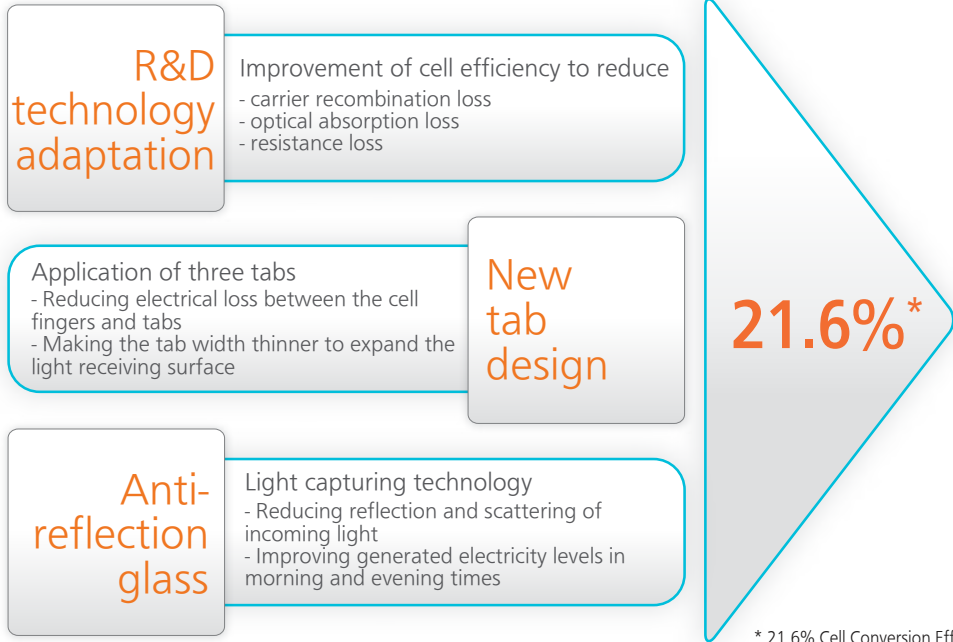
# Panasonic

ideas for life

## HIT Photovoltaic Module

### HIT Power 240S

### VBHN240SA06



\* 21.6% Cell Conversion Efficiency

## HIT<sup>®</sup> Power

Photovoltaic Module

**Ultra High Efficiency & Superior Real World Performance**  
 HIT Power Solar panels are leaders in sunlight conversion efficiency. Our hybrid cells produce the highest output on cloudy days.  
 21.6% Cell Conversion Efficiency  
 Most PTC Power 223.5W  
 Highest PTC/STC Ratio 93% +

**Superior Temperature Performance**  
 As temperatures rise, HIT Power solar panels produce 10% or more electricity (kWh) than conventional crystalline silicon solar panels at the same temperature.

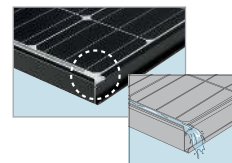
**Quality and Reliability**  
 Panasonic is truly committed to quality since it began developing and manufacturing solar PV in 1975. Since pioneering, developing and launching HIT Solar cells in the 1990s, we have been the technology leader, and for decades many satisfied customers have placed their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

**Power Guarantee**  
 The power ratings for HIT Power panels guarantee customers receive 100% of the nameplate rated power (or more) at the time of purchase, enabling owners to generate more kWh per rated Watt, quicken investments returns, and help realize complete customer satisfaction.

**American Made Quality**  
 Our silicon wafers located inside HIT solar panels are made in Oregon, and the panels are assembled in an ISO 9001 (quality), 14001 (environment), and 18001 (safety) certified factory. Unique eco-packaging minimizes cardboard waste at the job site. The panels have a Limited 20-Year Power Output and 10-Year Product Workmanship Warranty.

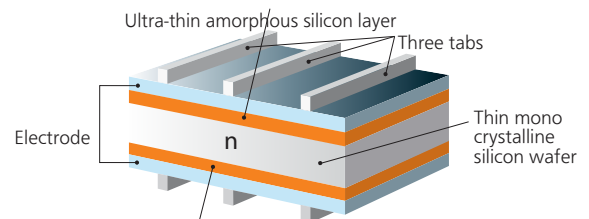
### "Drainage corner frame"

to prevent the accumulation of dirt on the panel



Rainwater flush the dirt of the panel

### HIT<sup>®</sup> solar cell structure



Ultra-thin amorphous silicon layer

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

# HIT Power 240S

## Electrical Specifications

Model	HIT Power 240S or VBHN240SA06
Rated Power (Pmax) <sup>1</sup>	240 W
Maximum Power Voltage (Vpm)	43.7 V
Maximum Power Current (Ipm)	5.51 A
Open Circuit Voltage (Voc)	52.4 V
Short Circuit Current (Isc)	5.85 A
Temperature Coefficient (Pmax)	-0.30%/ °C
Temperature Coefficient (Voc)	-0.126 V/ °C
Temperature Coefficient (Isc)	1.76 mA/ °C
NOCT	118.9°F (48.3°C)
CEC PTC Rating	223.5 W
Cell Efficiency	21.6%
Module Efficiency	19.0%
Watts per Ft. <sup>2</sup>	17.70 W
Maximum System Voltage	600 V
Series Fuse Rating	15 A
Warranted Tolerance (-/+)	-0% / +10%

## Mechanical Specifications

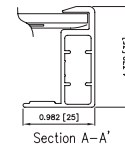
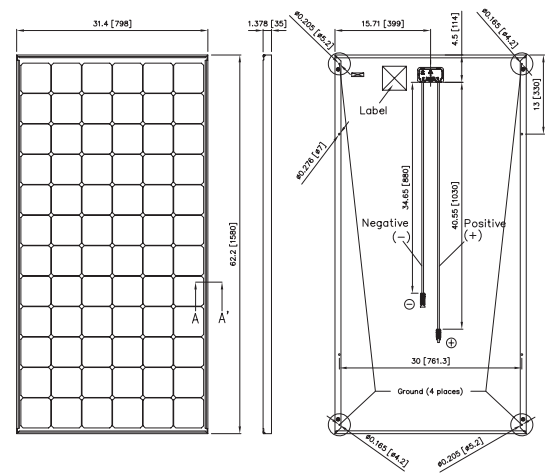
Internal Bypass Diodes	3 Bypass Diodes
Module Area	13.56 Ft <sup>2</sup> (1.26m <sup>2</sup> )
Weight	33.1 Lbs. (15kg)
Dimensions LxWxH	62.2x31.4x1.4 in. (1580x798x35 mm)
Cable Length +Male/-Female	40.55/34.64 in. (1030/880 mm)
Cable Size / Type	No. 12 AWG / PV Cable
Connector Type <sup>3</sup>	Multi-Contact <sup>®</sup> Type IV (MC4 <sup>™</sup> )
Static Wind / Snow Load	50 PSF (2.400 Pa)
Pallet Dimensions LxWxH	63.2x32x.65 in. (1607x815x1650 mm)
Quantity per Pallet / Pallet Weight	40 pcs./1388.9 Lbs (630 kg)
Quantity per 40' Container	560 pcs.
Quantity per 20' Container	280 pcs.

## Operating Conditions & Safety Ratings

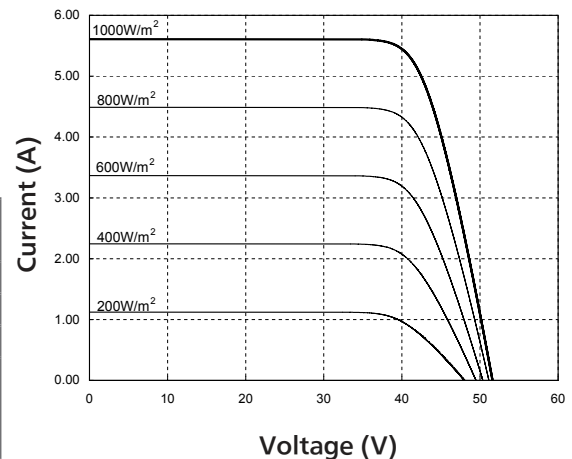
Ambient Operating Temperature <sup>2</sup>	-4°F to 115°F (-20°C to 46°C)
Hail Safety Impact Velocity	1" hailstone (25mm) at 52 mph (23m/s)
Fire Safety Classification	Class C
Safety & Rating Certifications	UL 1703, cUL, CEC
Limited Warranty	10 Years Workmanship, 20 Years Power Output

<sup>1</sup> STC: Cell temp. 25°C, AM1.5, 1000W/m<sup>2</sup>  
<sup>2</sup> Monthly average low and high of the installation site.  
 Note: Specifications and information above may change without notice.  
<sup>3</sup> Safety locking clip (PV-SSH4) is not supplied with the module.

## Dimensions and Weight



## Dependence on Irradiance



HIT is a registered trademark of Panasonic Group. The name "HIT" comes from "Heterojunction with intrinsic Thin-layer" which is an original technology of Panasonic Group.

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

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