

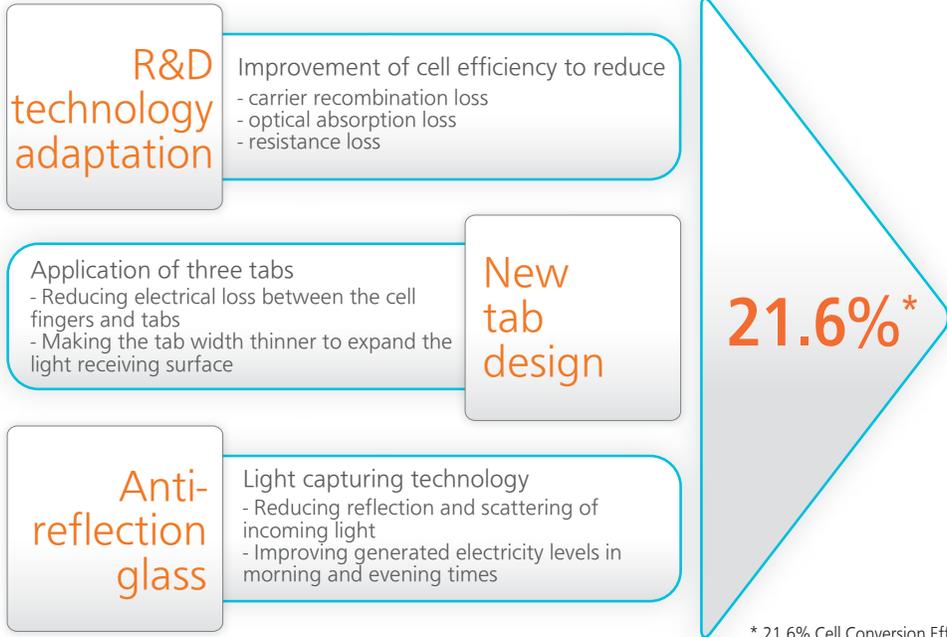
# Panasonic

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.

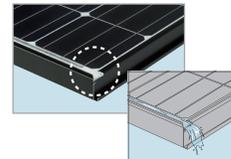
**Quality and Reliability**  
 Panasonic is truly committed to quality since it began developing and manufacturing solar PV in 1975. Since pioneering, developing and launching HIT Solar cells in the 1990s, we have been the technology leader, and for decades many satisfied customers have placed their 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-packing minimizes cardboard waste at the job site. The panels have a Limited 20-Year Power Output and 10-Year Product Workmanship Warranty.

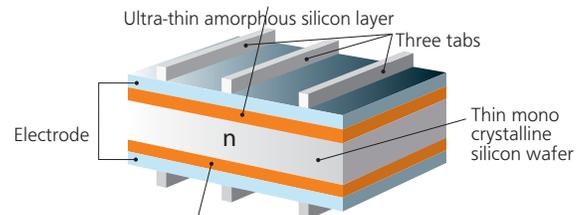
### "Drainage corner frame"

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

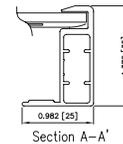
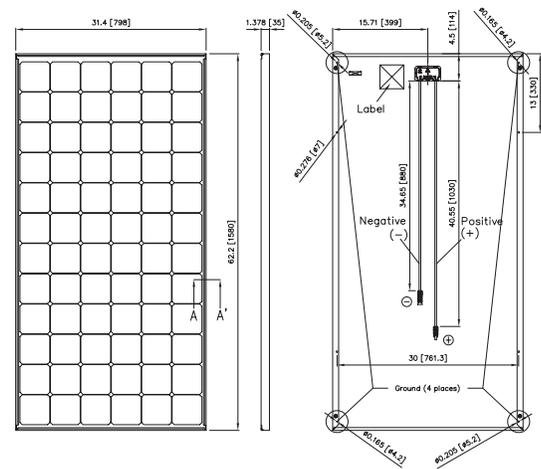
|                                     |  |
|-------------------------------------|--|
| Internal Bypass Diodes              | 3 Bypass Diodes  |
| Module Area                         | 13.56 Ft <sup>2</sup> (1.26m <sup>2</sup> )            |
| Weight                              | 33.1 Lbs. (15kg)                                       |
| 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

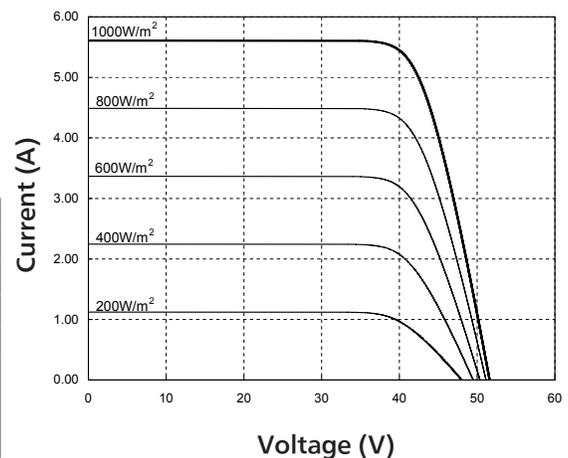
|  |   |
|--|---|
| Ambient Operating Temperature <sup>2</sup> | -4°F to 115°F (-20°C to 46°C)               |
| Hail Safety Impact Velocity                | 1" hailstone (25mm) at 52 mph (23m/s)       |
| Fire Safety Classification                 | Class C                                     |
| Safety & 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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