

**HIT<sup>®</sup> Power 220A**

**VBHN220AA01**

**HIT Delivers More Real World Performance**

- 19.8 % cell conversion efficiency
- Hybrid cell produces the highest output on cloudy days
- Highest warranted tolerance: -0/+10 %
- Most PTC Watts: 204.4
- Lowest temperature coefficient: -0.33%
- Highest PTC/STC Ratio: 93%+



**High Efficiency**

HIT<sup>®</sup> Power solar panels are leaders in sunlight conversion efficiency. Obtain maximum power within a fixed amount of space. Save money using fewer system attachments and racking materials, and reduce costs by spending less time installing per Watt.

**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.

**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.

**Valuable Features**

The packing density of the panels reduces transportation, fuel, and storage costs per installed watt.

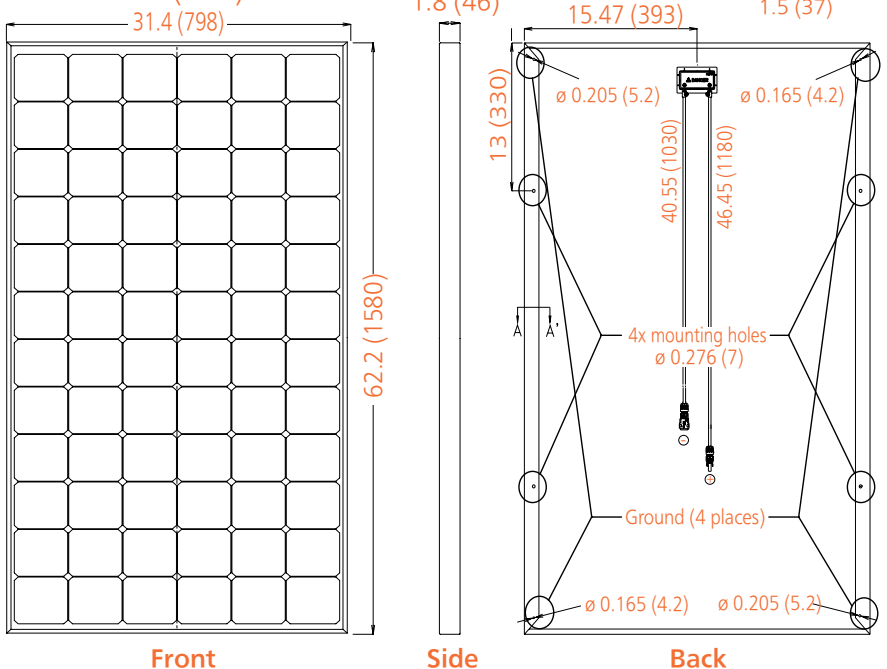
**American Made Quality**

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.

**HIT<sup>®</sup> Power**  
Photovoltaic Module

**Dimensions**

Unit: inches (mm)



# HIT<sup>®</sup> Power 220A

## Electrical Specifications

|                                 |                               |
|---------------------------------|-------------------------------|
| Model                           | HIT Power 220A or VBHN220AA01 |
| Rated Power (Pmax) <sup>1</sup> | 220 W                         |
| Maximum Power Voltage (Vpm)     | 42.7 V                        |
| Maximum Power Current (Ipm)     | 5.17 A                        |
| Open Circuit Voltage (Voc)      | 52.3 V                        |
| Short Circuit Current (Isc)     | 5.65 A                        |
| Temperature Coefficient (Pmax)  | -0.336%/ °C                   |
| Temperature Coefficient (Voc)   | -0.145 V/ °C                  |
| Temperature Coefficient (Isc)   | 1.98 mA/ °C                   |
| NOCT                            | 114.8°F (46°C)                |
| CEC PTC Rating                  | 204.4 W                       |
| Cell Efficiency                 | 19.8%                         |
| Module Efficiency               | 17.4%                         |
| Watts per Ft. <sup>2</sup>      | 16.22 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                              | 35.3 Lbs. (16kg)                                       |
| Dimensions LxWxH                    | 62.2x31.4x1.8 in. (1580x798x46 mm)                     |
| Cable Length +Male/-Female          | 46.45/40.55 in. (1180/1030 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             | 60PSF (2880Pa) / 39PSF (1867Pa)                        |
| Pallet Dimensions LxWxH             | 63.2x32x72.8 in. (1607x815x1850 mm)                    |
| Quantity per Pallet / Pallet Weight | 35 pcs./1322.7 Lbs (600 kg)                            |
| Quantity per 53' Trailer            | 980 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 |

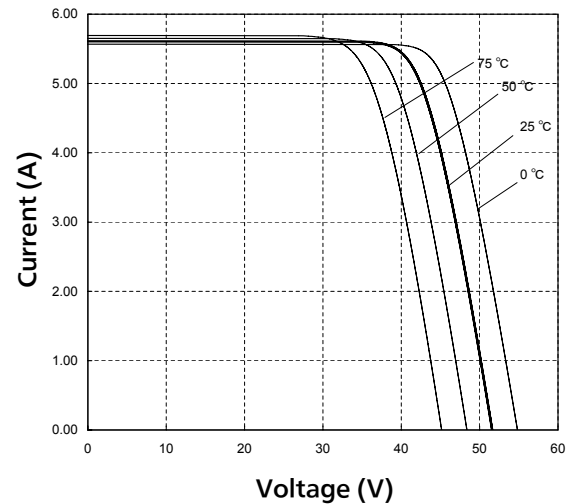
<sup>1</sup> STC: Cell temp. 25°C, AM1.5, 1000W/m<sup>2</sup>

<sup>2</sup> Monthly average low and high of the installation site.

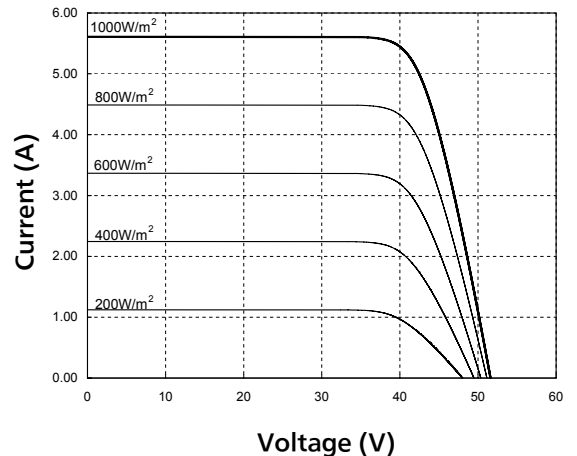
Note: Specifications and information above may change without notice.

<sup>3</sup> Safety locking clip (PV-SSH4) is not supplied with the module.

## Dependence on Temperature



## Dependence on Irradiance



HIT<sup>®</sup> is a registered trademark of SANYO Electric Co.,Ltd. The name "HIT<sup>®</sup>" comes from "Heterojunction with intrinsic Thin-layer" which is an original technology of SANYO Electric Co.,Ltd..

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

**Panasonic Eco Solutions**  
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