HIT PHOTOVOLTAIC MODULES

Models: HIP-180BA3, HIP-186BA3, HIP-190BA3, HIP-195BA3, HIP-200BA3, HIP-205BA3

Proprietary Technology
SANYO HIT (Heterojunction with Intrinsic Thin layer) solar cells are hybrids of single crystalline silicon surrounded by ultra-thin amorphous silicon layers.

High Efficiency
SANYO HIT solar panels are a leader in cell and module efficiency. With models up to 16.2 Watts per sq. foot (17.4% module efficiency) you obtain maximum power within a fixed amount of space. You save costs for using fewer support materials, wiring, and spend less time installing. The powerful modules are ideal for grid-connected solar systems, areas with performance-based incentives, and renewable energy credits.

Temperature Attributes
As temperatures rise, SANYO HIT solar panels produce more electricity (kWh) than conventional crystalline silicon solar panels at the same temperature.

Unique Structure
SANYO HIT solar panels have a black anodized double-wall aluminum frame. The panels come pre-equipped with a touch-safe junction box, lead wires, MC™ plug-n-play connectors, and a unique mounting lip, all of which help to minimize support structure materials, installation time and costs.

Valuable Features
SANYO HIT solar panels have no moving parts and weigh less than 31 pounds (14kg). The panels are 100% emission and noise free. The panels come with a 20-year Limited Power Output Warranty and a 2-year Limited Product Workmanship Warranty. Panels are UL 1703 safety rated for wind, fire and hail. You can transport the panels to a site using less space and our eco-package minimizes cardboard waste deposited in a customer’s trash.

Quality, Ratings, Reliability
SANYO silicon wafers are manufactured in the USA, and the panels are assembled in Mexico. All SANYO solar factories in North America are ISO 9001 and 14001 certified. The panels undergo strict inspections to ensure electrical, mechanical, environmental, and visual compliance. SANYO’s conservative model ratings give customers more kWh per rated kW, and assist to more accurately predict performance and financial economics.

Power Output: 180 - 205 Watts
Cell Efficiency: 17.8% - 20.2%
Module Efficiency: 15.3% - 17.4%
**CAUTION!** Read the operating instructions carefully before use of these products.

Visit www.sanyo.com or contact our Authorized Representatives for more information.

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**Models HIP-xxxBA3**

### Electrical Specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>180</th>
<th>186</th>
<th>190</th>
<th>195</th>
<th>200</th>
<th>205</th>
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</thead>
<tbody>
<tr>
<td>Rated Power (Pmax)</td>
<td>W</td>
<td>180</td>
<td>186</td>
<td>190</td>
<td>195</td>
<td>200</td>
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<tr>
<td>Maximum Power Voltage (Vpm)</td>
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<td>54.4</td>
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<td>Open Circuit Voltage (Voc)</td>
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<td>Temperature Coefficient (Pmax)</td>
<td>%/°C</td>
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<td>-0.30</td>
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<td>Module Efficiency</td>
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<td>Power per Square Foot</td>
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<td>15.0</td>
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</table>

### Mechanical Specifications

- **Internal Bypass Diodes**: 4 Bypass Diodes
- **Module Area (m²)**: 12.69 F² (1.18m²)
- **Weight (kg)**: 30.86 Lbs. (14kg)
- **NOCT (°C)**: 112°F (44.2°C)
- **Dimensions LxWxH (mm)**: 51.9x35.2x1.4in (1319x894x35mm)
- **Cable Length -Male/+Female (mm)**: 30.7/24.8in (780/630mm)
- **Cable Size / Connector Type**: No.12 AWG / MC™ Connectors
- **Static Load Wind / Snow (Pa)**: 50PSF (2400Pa) / 39PSF (1876Pa)
- **Pallet Dimensions LxWxH (mm)**: 53x36x63in (1346x912x1600mm)
- **Pieces per Full Pallet / Weight (kg)**: 36pcs / 1102 Lbs. (500kg)
- **Quantity per 20'/40'/53' Container**: 360pcs / 756pcs / 972pcs

### Standard Operating Conditions (SOC) and Safety Ratings

- **SOC Temperature**: -4°F to 104°F (-20°C to 40°C)
- **SOC Relative Humidity**: 45% to 95%
- **Hail Safety Impact Velocity**: 1” hailstone (25mm) at 52mph (23m/s)
- **Fire Safety Classification**: Class C
- **Safety & Rating Certifications**: UL 1703, cUL, CEC
- **Limited Warranties**: 2 Years Workmanship / 20 Years Power Output

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**CAUTION!** Health and safety matters are some of the most important aspects of solar panel installation. Always ensure that any work undertaken follows all local regulations and guidelines to avoid potential hazards. It is crucial to consult with professional engineers and other experts in the field to guarantee the best and safest installation methods. Always wear appropriate personal protective equipment (PPE) when handling or working on solar panels. Do not attempt modifications or repairs without professional supervision. Installing solar panels requires careful planning and execution to ensure their optimal performance and longevity. Remember to check for any updates or changes in solar panel technology, laws, and regulations to stay compliant and effective. By following these guidelines, you can increase the safety and efficiency of solar power installations. Read the operating instructions carefully before use of these products.