

Photovoltaic Modules



Specification Models:
Sheet S-230-60-1
S-235-60-1
S-240-60-1

S-240-60-1 S-245-60-1 S-250-60-1 Modules Rating: 230, 235, 240, 245, 250 Watt Anodized Aluminum Frame Weather Resistant Junction Box High Efficiency Crystalline Sillicon Solar Cell Built-in Bypass Diodes in Junction Box Standard IEC 61215, IEC 61730, TIS 1843-2553

ISO 9001: 2008

25 Years Limited Warranty



Spot solar modules are made with high efficiency solar cell and is electrically matched to minimize losses, for making modules suitable for commercial as well as domestic application.

Spot solar modules have been tested for grid connected as well as stand - alone systems offering high performance and relibility. The solar photovoltaic module is manufactured with crystalline solar cell conforming to the strict requirements to international quality standards.

The strings laminated between sheets of ethyl vinyl acetate (EVA) and backsheet.

For moisture free protection, UV stability and electrical isolation material are used. Low iron and high transitivity glass is used for strength and high power output.

A high quality backsheet (TPT) Provides mechanical protection and electrical insulation up to 1,000 Volt.

Each raw material such as EVA, glass and backsheet is procured from the most reliable and proven sources.

The laminate are framed with a strong, robust and corrosion resistant aluminum frame with multiple mounting holes for ease of installation as customer's requirement.

Village Power Electric Fence Charging Telecommunications Solar Home System Recreational Telemetry Traffic Control Signals Water Pumping Security Lighting Battery Maintenance Outdoor Lighting Solar Grid System

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Electrical Properties at Standard Test Condition (STC)

| PV Module Model | S-250-60-1 | S-245-60-1 | S-240-60-1 | S-235-60-1 | S-230-60-1 |
|-----------------------------|------------|------------|------------|------------|------------|
| Rated Maximum Power (Pmax) | 250 W | 245 W | 240 W | 235 W | 230 W |
| Tollerance of Maximum Power | ± 5% | ± 5% | ± 5% | ± 5% | ± 5% |
| Open Circuit Voltage (Voc) | 37.5 V | 37.3 V | 37.1 V | 36.9 V | 36.7 V |
| Shot Circuit Current (Isc) | 8.76 A | 8.67 A | 8.62 A | 8.55 A | 8.42 A |
| Voltage at Pmax (Vmp) | 30.3 V | 30.1 V | 29.8 V | 29.6 V | 29.3 V |
| Current at Pmax (Imp) | 8.26 A | 8.14 A | 8.06 A | 7.94 A | 7.85 A |
| Efficiency of Module | 15.37% | 15.06% | 14.75% | 14.44% | 14.14% |

Temperature Properties

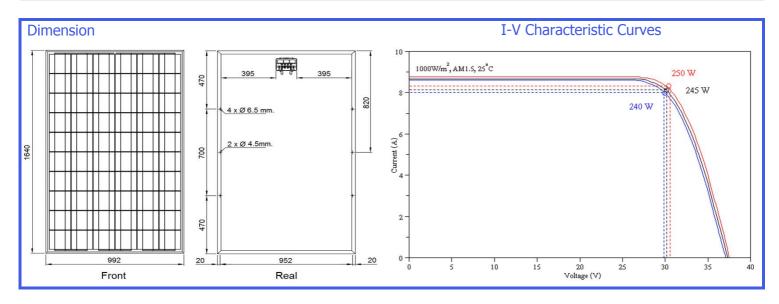
| Voltage Temperature Coefficient | -0.32%/°C |
|---------------------------------|-----------|
| Current Temperature Coefficient | 0.05%/°C |
| Power Temperature Coefficient | -0.39%/°C |

Maximum Use Rate

| Maximum System Voltage | 1000 V |
|------------------------|--------|
| Maximum Series Fuse | 20 A |

Mechanical Properties

| Mechanical Properties | |
|------------------------|------------------------------------|
| Dimension | 1640 x 992 x 33 mm. |
| Weight | 20.4 Kg. |
| Frame | Anodized Aluminum Profiles |
| Glass | Tempered Glass |
| Encapsulated Materials | Ethylene Vinyl Acetate (EVA) |
| Backsheet Materials | Composite Films |
| Solar Cell | Multicrystalline Silicon |
| Junction Box | 3 Bypass Diodes |
| PV Cable | 1x4 mm ² Length 600 mm. |
| | |



Electrical specification are based on measurements performed at standard test conditions (STC) of 1000 W/m² irradiance, air mass 1.5 and cell temperature of 25°C after long-term stabilization. Performance may vary up to 10% from rated power due to temperature operation, spectrum and related effects.

Note: Dimension and electrical specification of the solar modules may change without notice according to the type or size of cells in each lot to used in manufacturing lines.







