

SOLAR PHOTOVOLTAIC MODULES PM160

Solar Photovoltaic Modules, type PM180 are manufactured using Mono Crystalline Silicon Solar Cells. These are high quality and high performance modules suitable for power generation. These modules have excellent durability to withstand extreme temperature and weather conditions of the high altitudes, deserts and coastal regions.

FEATURES

- Uses mono crystalline silicon Solar Cells.
- Suitable for DC 12V/24V systems or multiple there-of.
- Encapsulation of cells using UV stabilized polymer (EVA) and protective back cover using Tedler-Polyester-Tedlar.
- High transmission toughened glass superstrate and anodized aluminum frame for mounting.
- Long service Life.

APPLICATIONS

1. Lighting
2. Television
3. Water Pumping
4. Rural Electrification
5. Power Plants
6. Telecommunication
7. Refrigeration
8. Railway Signalling
9. Remote Resort Power

SOLAR MODULE PM75 SPECIFICATION

| Electrical Parameters | PM 160 |
|----------------------------------|--------|
| Maximum Power Rating Pmax. (Wp)* | 160.0 |
| Minimum Power Rating Pmin (Wp)* | 152.0 |
| Rated Current I_{MPP} (A) | 4.6 |
| Rated Voltage V_{MPP} (V) | 35.0 |
| Short Circuit Current Isc (A) | 5.0 |
| Open Circuit Voltage Voc (V) | 43.0 |

Physical Parameters

| | | |
|-------------------------|-------------|-----------------|
| No. of Cells | (Nos) | 72 |
| Physical Dimension (mm) | (L x W x T) | 1580 x 795 x 42 |
| Weight | (Kg) | 14 |

Environmental Rating

| | | |
|--------------------------------------|------|-------------|
| NOCT ** | (°C) | 45 ±2 |
| Maximum permitted module temperature | (°C) | -40 to + 85 |
| Maximum permissible system voltage | (°C) | 600 |
| Relative Humidity at 85°C | (°C) | 85 |

* Under Standard Test Conditions (STC):

| | |
|------------------|-----------------------|
| Air Mass | AM 1.5 |
| Irradiance | 1000 W/m ² |
| Cell Temperature | 25°C |

** Nominal Operating Cell Temperature (NOCT) at :

| | |
|---------------------|----------------------|
| Wind Speed | 1m/s |
| Irradiance | 800 W/m ² |
| Ambient Temperature | 20°C |

**Specification subject to change without prior notice due to continuous in-house improvements.



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