

SOLAR PHOTOVOLTAIC MODULES PM12

CEL's Solar Photovoltaic Modules, type PM12 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 Tedlar-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

SPECIFICATION:

Electrical Parameters	PM 12
Maximum Power Rating Pmax. (Wp)*	12.0
Minimum Power Rating Pmin (Wp)*	10.0
Rated Current I _{MPP} (A)	0.72
Rated Voltage V _{MPP} (V)	16.5
Short circuit current I _{sc} (A)	0.84
Open circuit Voltage Voc (V)	21.0

Physical Parameters

No. of Cells	(Nos)	36
Physical Dimension (mm)	(L x W x T)	465 x 280 x 25
Weight	(Kg)	1.50

Environmental Rating

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