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EnergyPal

Solar Panel Guide Specification Data Sheet

**Aditi Solar Private Limited
Aditi 12V - 10WP
12V - 10WP**

Also available on the web at
EnergyPal.com/aditi-solar-private-limited-solar-panels/12v-10wp



SOLAR PHOTOVOLTAIC MODULES

Aditi's Photovoltaic Modules

- ★ High efficiency, Mono or Multi crystalline solar cells with high transmission and textured glass delivering a module series efficiency of up to 14.3%, minimizing installation costs and maximizing the kWh output of your system per unit area.
- ★ High quality, low iron, high transmissivity, tempered and toughened glass to ensure high light absorption.
- ★ Tin Copper interconnect increases Solderability and Conductivity. This also results in maximum output efficiency from the Module.
- ★ Premium quality encapsulation material ensuring high quality lamination leading to better performance.
- ★ Polyster tedlar used as a back sheet prevents from moisture and mechanical damage.
- ★ Weather resistant frame - seal helps preventing water seepage and protects the system from humidity.
- ★ Anodized Aluminum frame gives the system strong, corrosion-free structural support.
- ★ Produced in an ISO 9001:2008 & 14001:2004 certified production facilities.
- ★ Certifications: IEC 61215, IEC 61730-1&2, IEC 61701.
- ★ Warranty,
 - a) 90% of the rated power is guaranteed for a period of 10 years.
 - b) 80% of the rated power is guaranteed for a period of 25 years.



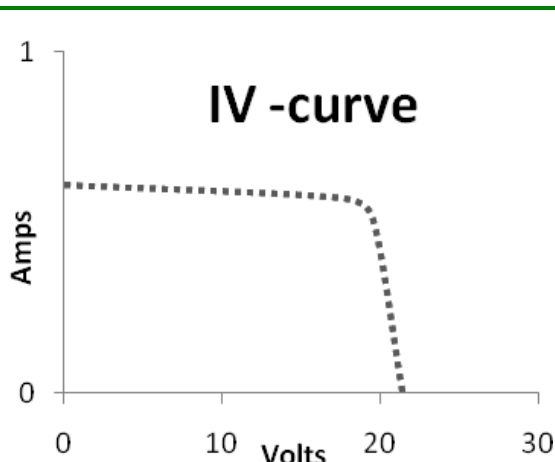
Model No: ADT 1210

Electrical Specifications:

| | |
|---|-------------------|
| Product Description | 12V - 10WP |
| Rated POWER Pmax - [W] | 10.00 |
| Rated Voltage Vmax - [V] | 17.50 |
| Rated Current I_{max} - [A] | 0.57 |
| Open Circuit Voltage V_{oc} - [V] | 21.50 |
| Short Circuit Current I_{sc} - [A] | 0.61 |
| Module Efficiency η - [%] | 10.20 |
| Tolerance | ± 3% |

Standard Test Conditions: Irradiance 1000 W/ m² , Module temperature 25°C, Spectrum AM 1.5

Module IV-Curve:



Temperature Coefficients

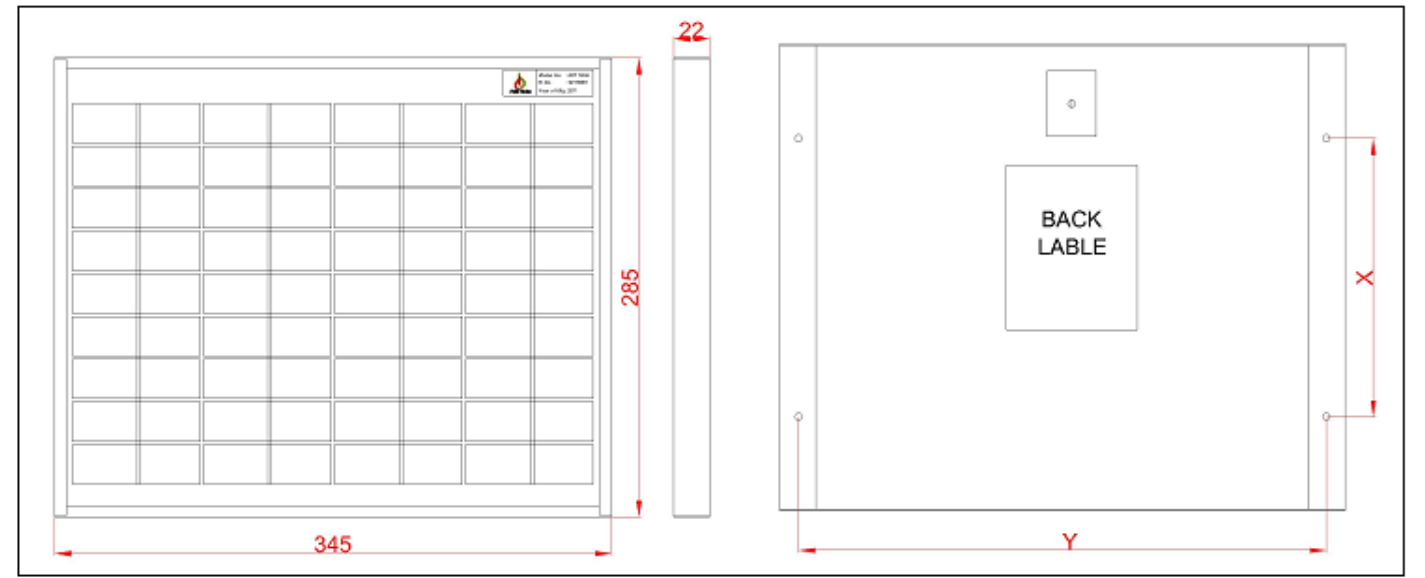
| | |
|-------------------------|------------|
| Voltage V _{oc} | : -0.33%/K |
| Current I _{sc} | : +0.06%/K |
| Power P _{max} | : -0.40%/K |

| | |
|------------------------------|------------------|
| Maximum system voltage | : 1000 V DC |
| Operating Module Temperature | : -40°C to +85°C |
| NOCT | : 47°C ± 2°C |

Certifications



Module Drawing & Mounting details:



Mechanical Specifications:

| | |
|--------------------|----------|
| Length [mm] | 285 ± 2 |
| Width [mm] | 345 ± 2 |
| Thickness [mm] | 22 |
| X [mm] | 170 ± 2 |
| Y [mm] | 322 ± 2 |
| Mounting hole | 5 mm dia |
| Earth hole | NA |
| Aprox. weight [Kg] | 1.0 |
| No. of cells | 36 |

Other Characteristics:

| | |
|--------------------|---|
| Cell type | Mono / Multi Crystalline |
| Front Glass | Toughened Textured Glass |
| Glass thickness | 3.2 mm |
| Cell Encapsulation | EVA (Ethylene Vinyl Acetate) |
| Back sheet | Poly vinyl Fluoride |
| Frame | Anodized, Extruded Aluminum frame |
| Junction Box | Nylon / ABS moulded 2 rail junction box |

Due to continuous upgradation of products, specifications mentioned are subject to change without prior notice.



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