



AcuTech S O L A R



A Step towards ...
Cleaner, Greener & Better Future !



IEC 61701, 61215 and 61730

Solar PV Module



AcuTech S O L A R

group of

www.acutechcorp.com

www.acutechsolar.in

AcuTech Solutions Pvt. Ltd.



About Ourselves

AcuTech Solar is a leading manufacturer of Solar PV Modules and Products

AcuTech Solar has expertise in the PV module manufacturing arena. We are committed to provide a superior product, timely delivery and exceptional customer service. As a manufacturer of photovoltaic modules, we can ensure that our clients receive a highly efficient and excellent priced product.

We are dedicated to quality, innovation and improved efficiency. Our Module goes through multiple quality tests. Firstly each cell is tested for accurate efficiency. Before lamination, each module is tested by EL (Electroluminescence) Tester for micro cracks. After lamination, each module is tested by Sun Simulator for final efficiency.

Our commitment towards quality can also be established by ISO 9001:2008.

Our corporate headquarter is located in Texas, USA. We own our manufacturing facility at Pune in India and we operate through regional offices to cater the business need at a pan India level.

Our management team, with almost a decade of experience has a track record of success in business.



3-300 W Polycrystalline Solar Photovoltaic Module

Product Overview

- ☒ Photovoltaic solar modules with wattage ranging from 3W to 300W.
- ☒ Multi Crystalline solar modules can withstand a wide variation in weather conditions
- ☒ Optimized edge clearance for high quality rugged design
- ☒ Our solar photovoltaic modules come with 25 yrs limited power output warranty
- ☒ High conversion efficiency achieved through innovative manufacturing practices
- ☒ Long term system reliability with IP65/IP67 Junction box
- ☒ Outstanding performance at low irradiance
- ☒ Maximum energy yield at low NOCT
- ☒ Capable of withstanding high wind-pressure, snow load and even extreme variation in temperature

Sturdy Design

- ☒ High quality, low iron, high transmissivity tempered and toughened glass to ensure high light absorption
- ☒ Premium quality encapsulation material ensuring high quality lamination and field warranties.

Highest Safety Standard

- ☒ All modules are pre-fabricated with mounting holes to ensure highest safety standards.



Applications

“Power Series modules specially designed for ” Standalone Solar System’.

- They are commonly used for battery backup systems
- Used for charging various types of batteries for solar applications like Lead Acid tubular Batteries, Flat Plate Batteries or Sealed Batteries, Flat Plate Batteries or sealed maintenance free batteries.
- Used in Solar Water Pumps, Power Grids, Street Light, Home System, Standalone Power Packs, Lightening System, Remote Telecom Installation.

Temperature Coefficients (Tc) and permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.33%/°C
Tc of Open Circuit Voltage (α)	+0.05%/°C
Tc of Power (Y)	-0.42%/°C
Maximum System Voltage	1000V (TUV), 600 (UL)
Temperature Range	-40°C to +85°C
Efficiency Reduction at 200W/m ² , 25°C	<5%
Resistance against hail	Maximum diameter of 24 mm with impact speed of 83km/h

IP65/IP67* JUNCTION BOX PROTECTION NOCT 45°C+2°C
(Irradiance 800 w/m², Ambient temp. 25°C wind speed 1M/Sec.)



All Electrical Data Measured at Standard Testing Conditions (STC)

 Irradiance 1000 Wm²



Module Temperature 25°C



AM : 1.5

CAUTION : READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE

Govt. of India
MNRE
Approved

Govt. of India
MNRE
APPROVED

CHANNEL PARTNER



Five Year Limited Product Warranty: Free from defects in workmanship and materials, under normal application uses.

Twenty Five Year Limited Performance Warranty: Power output of atleast 90% for ten (10) years and 80% for fifteen (15) years of original rated power specified, under Standard Test Conditions (STC).



Electrical Parameters and General Specifications

3 - 75 Polycrystalline Solar Photovoltaic Modules *							
Type	AGP06003	AGP06005	AGP12010	AGP12020	AGP12040	AGP12050	AGP12075
Pmax in Watts (Nominal)	3	5	10	20	40	50	75
Open Circuit Voltage (Voc) in volts	10.80	10.80	22	22	22	22	22
Short Circuit Current (Isc) in Amp	0.33	0.55	0.59	1.21	2.38	2.98	4.38
Voltage in maximum power (VMP) in volts	9.81	9.81	18	18	18	18	18
Current at maximum power (Imp) in apps	0.31	0.51	0.56	1.12	2.23	2.78	4.17
Maximum system voltage	600	600	600	600	1000	1000	1000
Solar cell per module (units)	18	18	36	36	36	36	36
Width x Length x Thickness (W x L x T) in mm	216 x 188 x 22	286 x 188 x 22	286 x 346 x 22	466 x 346 x 22	504 x 698 x 22	504 x 698 x 22	1016 x 510 x 35
Junction box type	2 rail , IP 65	2 rail , IP 65	2 rail , IP 65	2 rail , IP 65	2 rail , IP 65	2 rail , IP 65	3 rail , IP 65
Junction box protection rating	-	-	-	-	10 A	10 A	10 A
Weight (Kg)	0.31	1.05	1.8	2.8	5.7	5.7	7
Hole to hole distance (X axis) at Width side (mm)	159	159	317	317	465	465	475
Hole to hole distance (Y axis) at Length side (mm)	108	143	143	233	200	300	500

IEC Approved Panel Available MNRE / MEDA Channel Partner

100 - 320 Polycrystalline Solar Photovoltaic Modules *							
Type	AGP12100	AGP12150	AGP12200	AGP24200	AGP24250	AGP24300	AGP24320
Pmax in Watts (Nominal)	100	150	200	200	250	300	320
Open Circuit Voltage (Voc) in volts	22	22	22	37	36	43	46
Short Circuit Current (Isc) in Amp	5.92	8.84	11.78	7.2	8.84	8.84	8.95
Voltage in maximum power (VMP) in volts	18	18	18	30	31	37	38.4
Current at maximum power (Imp) in apps	5.56	8.33	11.12	6.67	8.07	8.11	8.34
Maximum system voltage	1000	1000	1000	1000	1000	1000	1000
Solar cell per module (units)	36	36	72	60	60	72	72
Width x Length x Thickness (W x L x T) in mm	1016 x 676 x 35	1480 x 676 x 35	1328 x 986 x 35/42	1328 x 986 x 35/42	1696 x 996 x 35/42	1966 x 996 x 35/42	1966 x 996 x 35/42
Junction box type	3rail , IP65	3rail , IP65	4rail, IP65, MC4 Connector	4rail, IP65, MC4 Connector	4rail, IP65, MC4 Connector	4rail, IP65, MC4 Connector	4rail, IP65, MC4 Connector
Junction box protection rating	10 A	10 A	15 A	15 A	15 A	15 A	15 A
Weight (Kg)	10	13	16	16	22	25	25
Hole to hole distance (X axis) at Width side (mm)	640	640	955	955	962	962	962
Hole to hole distance (Y axis) at Length side (mm)	500	900	900	900	1000	1000	1000

*Products specification can be changed without any prior notice

**available in
POLY and MONO
3 to 320 Watt**



**25
Yrs**

* Conditions Apply

Our Other World Class Products

LED BULB (AC)



LED lights have numerous environmental benefits over conventional lamps. LED lights consume between 50% - 90% less energy, which also means large carbon emission reductions, they do not contain mercury, are made from fully recycled material and lasts upto 35 times longer.

We are manufacturing and selling quality AC LED Luminaries.



Range 3W - 18W

FAN (DC)



AcuTech Green Energy a leading name in the field of solar energy produces 3 models of DC fans. These DC fans are specially designed and developed to run either directly on solar panel or on battery which is charged by solar panel. The DC fan has 3 speed options, which optimizes maximum output by requiring minimum voltage. It can also run on AC through Adopter.



Speed (1200-1400 RPM), 3 Models

SOLAR STREET LIGHT



Our company has emerged as a highly successful Trader & Supplier of DC Solar LED/CFL Street Lights. The DC Solar LED/CFL Street Lights, are known for their wide variety as well as long life. Our DC Solar LED/CFL Street Lights can be availed at a very competitive price.



* Limited Warranty

EPC PROJECT

Most of rural & semi-urban India experiences 12-24 hours of power outage. Solar Power is the most economical and reliable way of powering your business. Most commercial operations in rural/urban India run on Diesel Generator. These generators are extremely expensive and require a lot of maintenance. We have the experienced and expertise to execute small, medium and large EPC projects.

We have successfully executed projects from 3.5KW to 100KW. We have a number of projects ranging from School to Petrol Pumps to Big Commercial and Residential Buildings.



SOLAR HOME SYSTEM



The importance of light has inclined AcuTech to introduce this brilliant gadget. This is a responsible and helpful product for many, and especially for students and small business who plan to continue their studies/business with proper light and air.



CHARGE CONTROLLER



AcuTech Green Energy produces cost effective and efficient charge controller. It has a PWM based high quality solar charge controllers of 20Amp and 30Amp (12/24V). The strong R&D team help in selecting the right and quality components for making highly efficient PCB's for the product.

These Charge Controllers come with a mobile charging option.



SOLAR POWERED WATER PUMP



AcuTech Green Energy solar-powered pumps run on electricity generated by photovoltaic panels available from collected sunlight as opposed to grid electricity or diesel run water pumps. The operation of solar powered pumps is more economical mainly due to the lower operation and maintenance costs. Additionally it has environmental impact than Internal Combustion Engine (ICE) powered pumps. Solar pumps are useful where grid electricity is unavailable and alternative sources (in particular wind) do not provide sufficient energy.



SOLAR WATER HEATER



AcuTech brings you affordable yet quality hybrid solar water heater based on ETC/FTC technology. Its wide range of 100L to 6000L caters to your domestic and commercial 24 hours of water needs.

It is the most efficient and cost effective method for water heating.





AcuTech SOLAR



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