



CORPORATE PROFILE



PHOTON ENERGY SYSTEMS LIMITED

An ISO 9001:2000 Company

Regd Office: Plot No.775-K, Road No.45, Jubilee Hills, Hyderabad 500 033.

Corporate Office: #19, Mount View Enclave, Road no 12, Banjara Hills,
Hyderabad 500 034

Tel: +91 40 23331337, 23331338, 23331339 Fax: +91-40-23331340

E-mail: contact@photonsolar.in

URL: www.photonsolar.com

QUALITY MANAGEMENT SYSTEMS
CERTIFIED BY



RWTUV

The Company



Photon Energy Systems Limited was incorporated in 1995 and commenced operations in year 1997-98 with financial assistance from Indian Renewable Energy Development Agency Ltd. The company is promoted by technocrats with wide experience in industry.

The company manufactures a wide range of Solar energy products – Solar PV modules, Solar Lanterns, Solar Street Lights, Solar Water Pumps, Solar Power plants and Solar Water Heating Systems. The manufacturing unit located at Hyderabad is equipped with state-of-the-art facilities, backed by strong R & D cell and testing lab to produce affordable custom designed SPV products. The company has all facilities to manufacture and test the products under one roof.

With a production capacity of 50mw, it is now a leading manufacturer of high quality and reliable Solar Energy Systems. It is one of the largest & cost effective producers of Solar PV Panels from 3Wp to 220Wp. Photon has IEC 61215 certification for their range of Panels upto 220wp. Photon offers a unique advantage of combined expertise in Solar Photovoltaics, Solar Thermal and Solar Electronics.



Company's Vision



- **Our Vision**

To be a global, innovative and competitive Solar Energy Enterprise providing total solutions to customers of Solar Energy Products and Services.

- **Our Mission**

To be a leading Solar Energy enterprise, providing superior quality products and services at competitive prices.



Infrastructure



Photon Energy Systems Limited. has a production capacity of 50mw with the state-of-art manufacturing facility incorporating the latest equipment. Some of the equipment are

PV Module Assembly Line

- Cell Sorter
- Laser Cutting Machines
- Tabbing & Stringing Stations
- Lay-up Stations
- Vacuum Pick-up
- Mobile Racks
- Roll-rack Cutting Machine
- Vacuum Laminators
- Curing Oven
- Glass Cleaning Station
- Module Tester



Systems assembly

- Multiple Battery Charging stations
- Workstations
- Field Tester
- Measuring Instruments



Utilities

- DG Set
- Air Compressor
- Pick-up van & Staff Bus



Quality Assurance & Control



•Our Quality Policy

To be one of the leading global Solar Photovoltaic enterprises, providing quality Solar Energy products and services to the complete satisfaction of the customers.

•Type Tests

- Solderability Test
- EVA Gel Content Test
- Lamination pull-strength Test
- Environmental Tests (JPL Block V)

•Routine Tests

- Visual Inspection
- I-V Curve Measurement

•Our Technical capabilities

- Solar module line of international standards with high conversion efficiency at low cost.
- Optimized processing methods resulting in high yields.
- Technology transfer and project assistance
- Conduct technical audits to improve cell and module line efficiencies & yields.



Registrations & Certifications



IEC61215 certification for Solar Modules from TUV, Germany for modules upto 220Wp

- ISO 9001:2000 by TUV Germany
- IEC61215 certification for Solar Modules from OVE, Austria, for modules upto 110Wp
- Test Certificates from Solar Energy Centre, Ministry of Non-Conventional Energy, Govt. of India for Solar Modules and other Solar Products. SEC is the Premier Test & Research centre for all Solar Products in India.



- Test Certificate from ETDC for Solar Modules.
- Bureau of Indian Standards approval (ISI Mark) for Solar Water Heaters.
- Test Certificate from Regional Solar Energy Test Centre for the evacuated tube Water Heaters. Highest Thermal efficiency among all Solar Water Heating systems.
- Registered with Ministry of Non-Conventional Energy as OEM manufacturer of Solar products.
- Approved manufacturer of Vacuum Tube Solar Water Heaters by Ministry of Non-Conventional Energy Systems, Government of India.



IEC 61215 TUV Certification



C E R T I F I C A T E

Certificate No 08-PPV-00002/01-TIC

WE HEREBY CERTIFY THAT THE PHOTOVOLTAIC MODULES WITH THE MODEL

PM0200 (Tested type)

PM0220, PM0210, PM0190

PM0185, PM0180, PM0175, PM0165, PM0160, PM0155, PM0150, PM0135, PM0130, PM0125, PM0120, PM0115, PM0110, PM0100, PM090, PM080, PM075, PM070, PM065, PM060, PM055, PM050, PM045, PM040

LICENSE HOLDER:

Photon Energy System Ltd
Plot N. 775K, Road N. 45, Jubilee
Hills, Hyderabad – 33 A.P. INDIA

&

MANUFACTURED BY:

Photon Energy System Ltd
Plot N. 775K, Road N. 45, Jubilee
Hills, Hyderabad – 33 A.P. INDIA

IS IN COMPLIANCE WITH THE REQUIREMENTS OF

CEI IEC 61215 (2005-04)

(Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval)

AS RESULT OF THE TEST IN OUR APPOINTED LABORATORY

EUROTEST LABORATORI

(EA ACCREDITED LABORATORY N. 0192)

REPORT No. TIC-PVM01CdO07C303001

Expiring date 27-01-2011

(Providing that the testing basis continues unchanged)

Notes: The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type PM0200. The output power is within 10 % than the tested type. The IEC 61215 Product or Process Modifications Requiring Limited CBTL Re-testing to Maintain Certification indicates that no re-testing is required for module within 10% of output power (**) and with a fewer number of cells (**). Technical data, materials and components description are into the Indicated test reports. Any changes of the design, materials, components or processing may require the repetition of some of qualification test in order to retain type approval. This certificate is for type approval and based on voluntarily product test without Factory Inspection. Test and verifications, carried out, do not substitute standards requirements, but they are added to its prescriptions. The series production is not subject to a control and is not part of the assessment.

**TUV
INTERCERT**

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Responsible for the Test

Via San Vito, 7 - Milan, 28.01.08

TUV INTERCERT Certification Body

Safety CLASS II Certification



C E R T I F I C A T E

Certificate No 08-PPV-00002/02-TIC

WE HEREBY CERTIFY THAT THE PRODUCT⁽¹⁾

PM0200 (Tested type)

PM0220, PM0210, PM0190

PM0185, PM0180, PM0175, PM0165, PM0160, PM0155, PM0150, PM0135, PM0130, PM0125, PM0120, PM0115,
PM0110, PM0100, PM0090, PM0080, PM0075, PM0070, PM0065, PM0060, PM0055, PM0050, PM0045, PM0040

LICENSE HOLDER:

Photon Energy System Ltd
Plot N. 775K, Road N. 45, Jubilee
Hills, Hyderabad – 33 A.P. INDIA

&

MANUFACTURED BY:

Photon Energy System Ltd
Plot N. 775K, Road N. 45, Jubilee
Hills, Hyderabad – 33 A.P. INDIA

IS IN COMPLIANCE WITH THE REQUIREMENTS OF

TÜV Std-ticpr, SAFETY CLASS II (Qualification Tests On PV Modules)

To be used in plants at a total voltage up to :

1000 Vdc

AS RESULT OF THE TEST IN OUR APPOINTED LABORATORY

EUROTEST LABORATORI
(EA ACCREDITED LABORATORY N. 0192)

REPORT No. TIC-PVM02CdO07C303001

Expiring date 27-01-2011

(Providing that the testing basis continues unchanged)

Notes: The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type PM0200. The output power is within 10 % than the tested type. The IEC61215 Retesting Guideline "IEC 61215 Product or Process Modifications Requiring Limited CBTL Retesting to Maintain Certification" indicates that no re-testing is required for module within 10% of output power (*) and with a fewer number of cells (**). Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, components or processing may require the repetition of some of qualification test in order to retain type approval. This certificate is for type approval and based on voluntarily product test without Factory Inspection. Test and verifications, carried out, do not substitute standards requirements, but they are added to its prescriptions. The series production is not subject to a control and is not part of the assessment.



Responsible for the Test

Via San Vito, 7 - Milan,

28.01.08

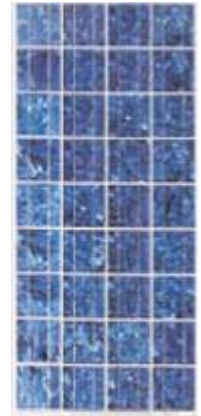
TÜV INTERCERT Certification Body

Product Range



Solar Modules

Small Modules (3 Wp to 50Wp)
Large Modules (Upto 240Wp)



Solar PV Systems

Lanterns
Home Lighting Systems
Street Lights
Power Plants
Pumps



Solar Water Heaters

PHOTONIZER with Flat Plate Collectors
MIRACLE with Evacuated Glass Tube Collectors



Installation Pictures

