PHOTON ENERGY SYSTEMS LIMITED

Multi - Crystalline

Series: PM0250-0275-72

1800 4252 786

www.fb.com/PhotonSolarPower

ABOUT

Established in 1995, Photon Energy Systems Limited is one of the most experienced solar energy companies in the World. At Photon, we are the leading manufacturers of high performance solar PV modules which are used to power residential, commercial and other large scale utilities. With our highly reliable solar PV modules, produced in a state of the art manufacturing facility, we have installed & commissioned more than 60 MW grid connected power plants in India at the end of fiscal year 2013-14.

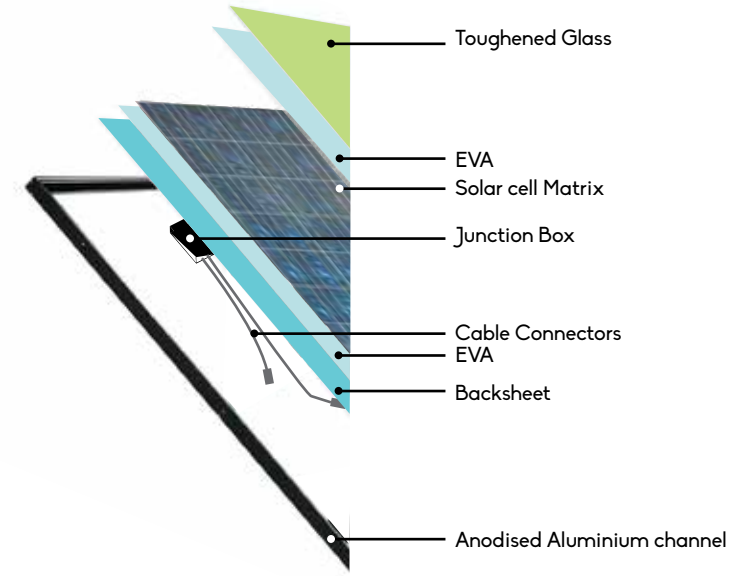
To Visit Our Webite

SCAN

with a QR code reader

PM0300 MODULE

CELL LAYER DAIGRAM



for more details, refer Backpage.

CERTIFICATIONS & APPROVALS

AVAILABLE AS PER REQUEST

PID free cells
(Potential Induced Degradation)

RFID Tag embedded Modules

SPECIAL FEATURES

- High energy conversion efficiency because of high fill factor
- Cells sorted by power and current to minimize field mismatch losses.
- Electroluminescence test carried out for micro-cracks

25
Superior 25 years Warranty

Certifications: ISO 9001, ISO 14001

Made in India Quality checked

5400 Pa
Mechanical Load (Wind, Snow) = 5400 Pa

15.2% Module Efficiency

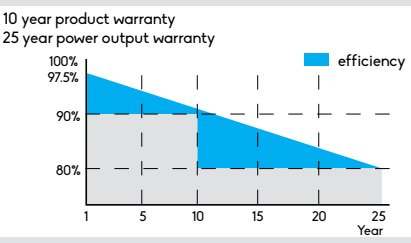
Easy Installation & Maintainence

Industrial

Commercial

Residential

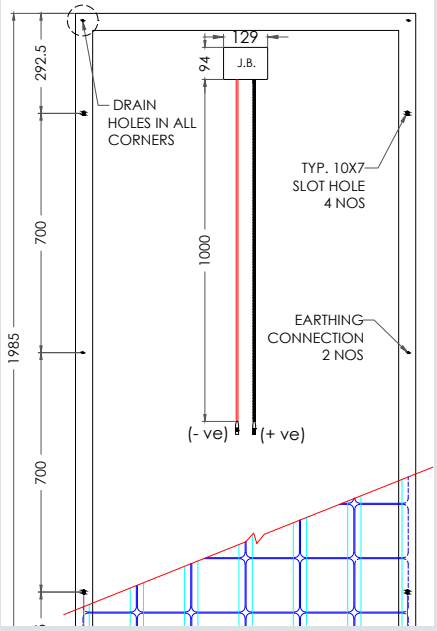
Rural MicroGrids



Revised as of May 2014

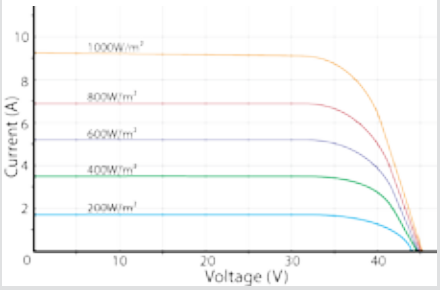
TECHNICAL DRAWING

BACK VIEW



Series: PM0250-0275-72

CURRENT VOLTAGE CURVE PM0300



OPERATING CONDITIONS

Maximum system Voltage - V	1000 VDC
Operating Temperature	- 40 to + 85 °C
Maximum Static Load (Wind/Hail or Snow)	5400 Pa (113 psf)
Maximum series fuse rating (A)	15

PHOTON ENERGY SYSTEMS LIMITED

* Measured at Standard Test Conditions (STC): Irradiance of 1000W/m², AM 1.5, and Cell temperature 25° C
** All Dimensions are in mm.

PACKAGING DETAILS

No. of Modules per pallet	24
Number of pallets per 40ft container	24

	PM0250	PM0270	PM0275

ELECTRICAL PARAMETERS AT STANDARD TEST CONDITIONS (STC)

Nominal Power - P_{max} (Watts)	**250**	**270**	**275**
Power tolerance (%)	± 2	± 2	± 2
Module Efficiency / Fill Factor (%)	12.9	13.9	14.1
Voltage at Maximum Power - V_{mp} (V)	36.07	36.07	36.29
Current at Maximum Power - I_{sc} (A)	6.93	7.49	7.59
Open Circuit Voltage - V_{oc} (V)	43.06	43.06	43.34
Short Circuit Current - I_{sc} (A)	7.74	8.22	8.28

ELECTRICAL PARAMETERS AT NOCT

P_{max} (Watts)	181.5	196.02	199.65
Voltage at Max. Power - V_{mp} (V)	33.18	33.18	33.38
Current at Max. Power - I_{mp} (A)	5.47	5.906	5.98
Open Circuit Voltage - V_{oc} (V)	40.3	40.3	40.57
Short Circuit Current - I_{sc} (A)	6.03	6.41	6.45

MODULE DATA

L X W X D (mm)	1990 X 997 X 50
Weight (Kg)	28
Area - Sq.m	1.98
Frame Material	Silver White color Anodised Aluminium channel
Glass	3.2 mm Tempered Low Iron Textured toughened glass
Junction Box	Solar Box-RH3, with IP 67 and 3 Bypass diodes (Make: Huber+ Shuner)
Cable connector	Radox Solar Connectors with 1m length cable (make: Huber +Suhner)
Cell encapsulation material	Ethylene Vinyl Acetate
Backside Sheet	Multi layered PET based film

CELL DATA

Cell type	Multi-Crystalline
Solar Cells per Module	**72**
Parent Solar Cell Size	156 x 156

TEMPERATURE COEFFICIENT

P_{max}	- 0.430 % / °C
V_{oc}	- 0.330 % / °C
I_{sc}	+ 0.058 % / °C

References: Specifications included in this datasheet are subject to change without notice.
However proper care has been taken to ensure the accuracy of provided data.
Caution: Read safety and installation instructions before using this product. This module should not be directly connected to a load.

Photon Energy Systems Limited
775-K, Road No. 45, Jubilee Hills,
Hyderabad – 500 033, A.P., INDIA
Tel: +91 40 2333 1337 / 38 / 39 Fax: +91 40 2333 1340
E-mail us: factory@photonsolar.in Website: www.photonsolar.in

for sales inquiry, email us at spvmarketing@photonsolar.in

for our Dealers Network, kindly visit:
http://photonsolar.in/html/dealers-network.html

DOC NO. PM0250-275-V2-may2014