

PHOTON ENERGY SYSTEMS LIMITED

Multi - Crystalline

Series: PM0225-0240-60

☎ 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.

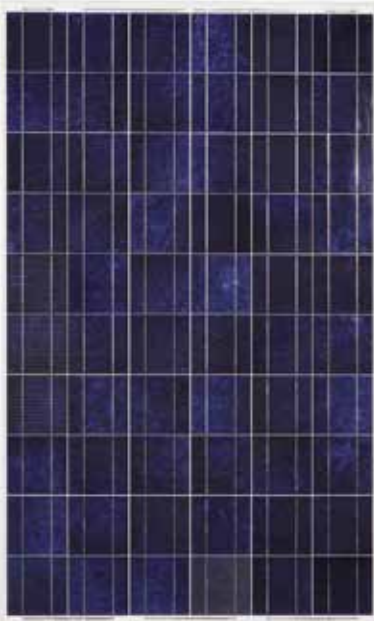
To Visit Our Website

SCAN

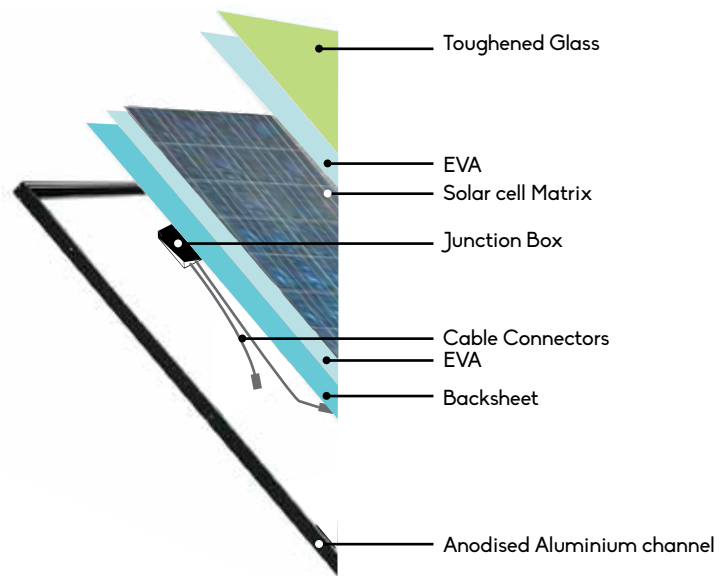
with a QR code reader



PM0250 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



Superior
25 years Warranty



Certifications: ISO
9001, ISO 14001



Made in India
Quality checked



Mechanical Load
(Wind, Snow) = 5400 Pa



15.2% Module
Efficiency



Easy Installation
& Maintenance



Industrial



Commercial

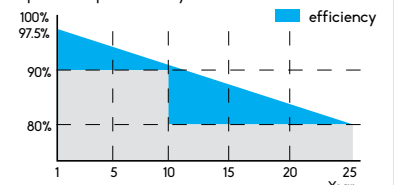


Residential



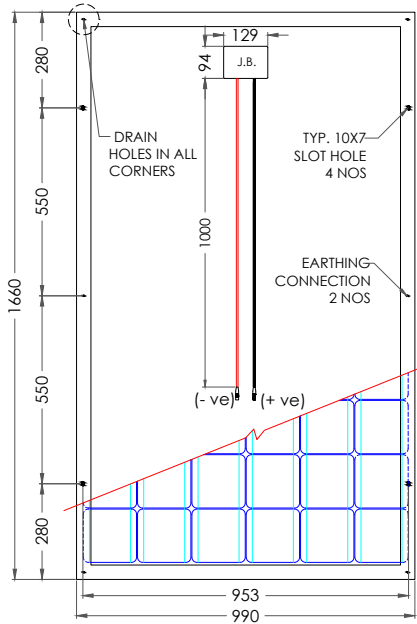
Rural MicroGrids

10 year product warranty
25 year power output warranty



TECHNICAL DRAWING

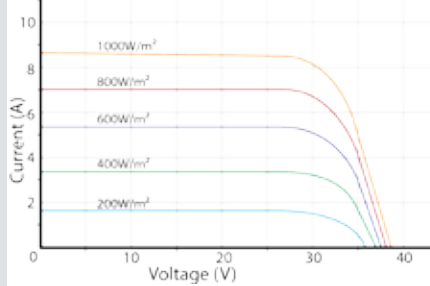
BACK VIEW



Series: PM0225-0240-60

CURRENT VOLTAGE CURVE

PM0250



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 |



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* 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

| | |
|--------------------------------------|--------------------|
| Box dimensions L x W x H (mm) | 1720 x 1140 x 1170 |
| Gross Box weight (kg) | 528 |
| No. of Modules per pallet | 24 |
| Number of pallets per 40ft container | 24 |

PM0225

PM0230

PM0235

PM0240

ELECTRICAL PARAMETERS AT STANDARD TEST CONDITIONS (STC)

| | 225 | 230 | 235 | 240 |
|--|-------|-------|-------|-------|
| Nominal Power - P _{max} (Watts) | 225 | 230 | 235 | 240 |
| Power tolerance (%) | ± 2 | ± 2 | ± 2 | ± 2 |
| Module Efficiency / Fill Factor (%) | 13.6 | 13.9 | 14.3 | 14.6 |
| Voltage at Maximum Power - V _{mp} (V) | 30.06 | 30.33 | 30.48 | 30.52 |
| Current at Maximum Power - I _{sc} (A) | 7.49 | 7.63 | 7.71 | 7.86 |
| Open Circuit Voltage - V _{oc} (V) | 35.88 | 36.24 | 36.42 | 36.60 |
| Short Circuit Current - I _{sc} (A) | 8.22 | 8.31 | 8.37 | 8.43 |

MODULE DATA

| | |
|-----------------------------|--|
| L X W X D (mm) | 1660 x 990 x 45 |
| Weight (Kg) | 20 |
| Area - Sq.m | 1.64 |
| 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 | 60 |
| 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.

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<http://photonsolar.in/html/dealers-network.html>