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Solar Panel Guide Specification Data Sheet

Photon Energy Systems Limited PM0250-0275-72 PM0250

# **PHOTON ENERGY SYSTEMS LIMITED**

Multi - Crystalline

Series: PM0250-0275-72

**\( 1800 4252 786** 







### **ABOUT**

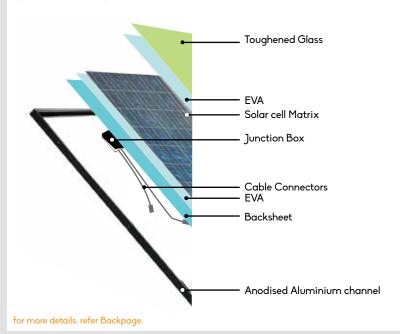
Established in 1995, Photon Energy Systems Limited is one of the most experienced solar energy companies in the World. At Photon, we are the leading manufacturers of high performance solar PV modules which are used to power residential, commercial and other large scale utilities. With our highly reliable 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.



#### PM0300 MODULE



### **CELL LAYER DAIGRAM**

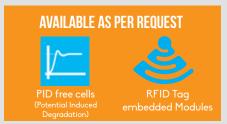


#### **CERTIFICATIONS & APPROVALS**









## **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 & Maintainence



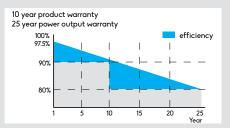
Industrial



Commercial

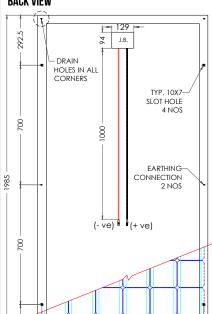


Rural MicroGrids

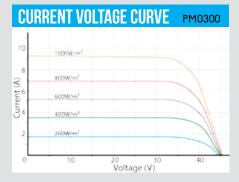


## **TECHNICAL DRAWING**

# **BACK VIEW**



# Series: PM0250-0275-72



<b>OPERATING CONDITIO</b>	ONS
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	15

rating (A)



Measured at Standard Test Conditions (STC): Irradiance of 1000W/m<sup>2</sup>, 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	24
container	2

ELECTRICAL PARAMETERS AT STANDARD TEST CONDITIONS (STC)			
Nominal Power - P <sub>max</sub> (Watts)	250	270	275
Power tolerance (%)	± 2	± 2	± 2
Module Efficiency / Fill Factor (%)	12.9	13.9	14.1
Voltage at Maximum Power - V <sub>mp</sub> (V)	36.07	36.07	36.29
Current at Maximum Power - I <sub>sc</sub> (A)	6.93	7.49	7.59
Open Circuit Voltage - V <sub>oc</sub> (V)	43.06	43.06	43.34
Short Circuit Current - I <sub>sc</sub> (A)	7.74	8.22	8.28

ELECTRICAL PARAMETERS AT NOCT			
P <sub>max</sub> (Watts)	181.5	196.02	199.65
Voltage at Max. Power - V <sub>mp</sub> (V)	33.18	33.18	33.38
Current at Max. Power - I <sub>mp</sub> (A)	5.47	5.906	5.98
Open Circuit Voltage - V <sub>oc</sub> (V)	40.3	40.3	40.57
Short Circuit Current - I <sub>sc</sub> (A)	6.03	6.41	6.45

MODULE DATA	
LXWXD(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 lavered PFT based film

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

TEMPERATURE COEFFICIENT	
P <sub>max</sub>	- 0.430 % / °C
V <sub>oc</sub>	- 0.330 % / °C
T	+ 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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