PHOTON ENERGY SYSTEMS LIMITED

Multi - Crystalline

Series: PM0200-0220-54

**** 1800 4252 786







ABOUT

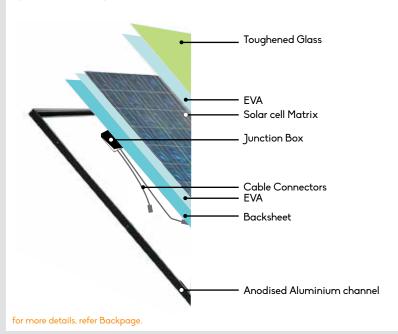
Established in 1995, Photon Energy Systems Limited is one of the most experienced solar energy companies in the World. At Photon, we are the leading manufacturers of high performance solar PV modules which are used to power residential, commercial and other large scale utilities. With our highly reliable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



PM0200 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



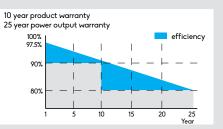
Commercial



Residential



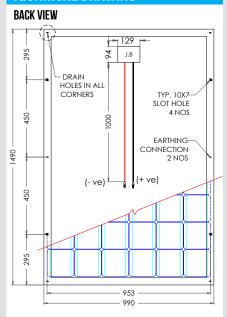
Rural MicroGrids



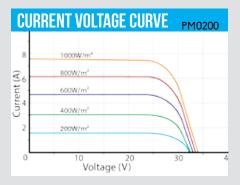
Revised as of May 2014

TECHNICAL DRAWING

MODULE DATA



Series: PM0200-0220-54



OPERATING CONDITIONS

rating (A)

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



* 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

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PM0200 PM0210 PM0220

ELECTRICAL PARAMETERS AT STANDARD TEST CONDITIONS (STC)				
Nominal Power - P _{max} (Watts)	200	210	220	
Power tolerance (%)	± 2	± 2	± 2	
Module Efficiency / Fill Factor (%)	13.5	14.1	14.8	
Voltage at Maximum Power - V _{mp} (V)	27.05	27.38	27.81	
Current at Maximum Power - I _{sc} (A)	7.49	7.68	7.97	
Open Circuit Voltage - V _{oc} (V)	32.29	32.69	33.18	
Short Circuit Current - I _{sc} (A)	8.20	8.34	8.52	

LXWXD(mm)	1490 x 990 x 45
Weight (Kg)	17.5
Area - Sq.m	1.48
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	54
Parent Solar Cell Size	156 x 156

TEMPERATURE COEFFICIENT		
P _{max}	- 0.430 % / °C	
V _{oc}	- 0.330 % / °C	
Isc	+ 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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