PHOTON ENERGY SYSTEMS LIMITED

Multi - Crystalline

Series: PM0245-0260-60

📞 **1800 4252 786**

f www.fb.com/PhotonSolarPower

PHOTON

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.
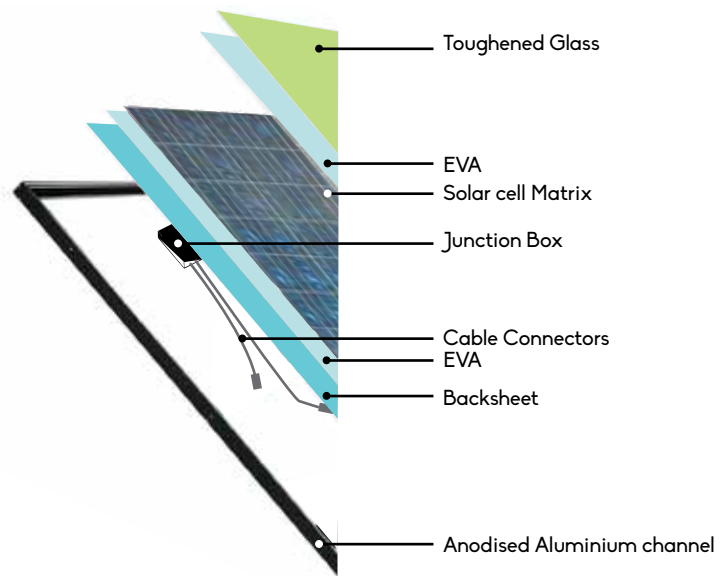
PM0250 MODULE

CELL LAYER DAIGRAM

- Toughened Glass
- EVA
- Solar cell Matrix
- Junction Box
- Cable Connectors
- EVA
- Backsheet
- Anodised Aluminium channel

for more details, refer Backpage.

CERTIFICATIONS & APPROVALS

TÜV Rheinland ISO 14001

TÜV Rheinland ISO 9001

UL

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
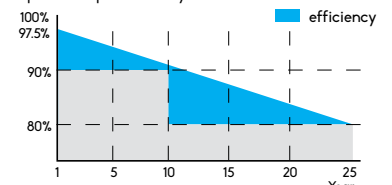
15.2% Module
Efficiency

Easy Installation
& Maintainence

Industrial

Commercial

Residential

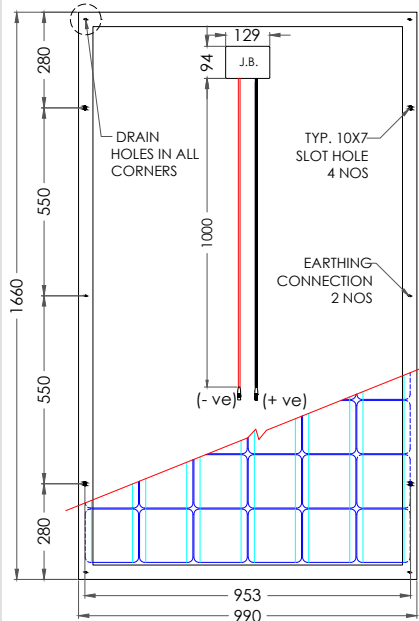Rural MicroGrids
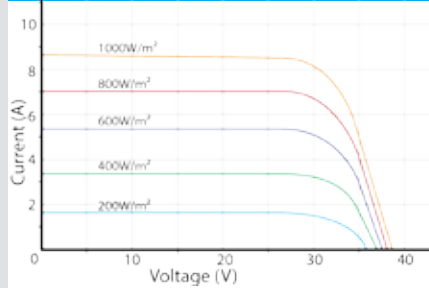
10 year product warranty
25 year power output warranty

efficiency

100%
97.5%
90%
80%

1   5   10   15   20   25
Year

TECHNICAL DRAWING

BACK VIEW

- DRAIN HOLES IN ALL CORNERS
- J.B.
- TYP. 10X7 SLOT HOLE 4 NOS
- EARTHING CONNECTION 2 NOS
- (- ve) (+ ve)
- 129
- 94
- 280
- 1000
- 550
- 550
- 1660
- 280
- 953
- 990

Series: PM0245-0260-60

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

ELECTRICAL PARAMETERS AT STANDARD TEST CONDITIONS (STC)

	PM0245	PM0250	PM0255	PM0260
Nominal Power - P_{max} (Watts)	**245**	**250**	**255**	**260**
Power tolerance (%)	± 2	± 2	± 2	± 2
Module Efficiency / Fill Factor (%)	14.8	15.2	15.5	15.8
Voltage at Maximum Power - V_{mp} (V)	30.58	30.72	30.90	31.32
Current at Maximum Power - I_{sc} (A)	8.01	8.15	8.42	8.54
Open Circuit Voltage - V_{oc} (V)	36.87	37.05	37.44	37.80
Short Circuit Current - I_{sc} (A)	8.52	8.58	8.98	9.09

ELECTRICAL PARAMETERS AT NOCT

	PM0245	PM0250	PM0255	PM0260
P_{max} (Watts)	177.87	181.5	185.13	188.76
Voltage at Max. Power - V_{mp} (V)	27.2	27.71	27.71	28.05
Current at Max. Power - I_{mp} (A)	6.54	6.62	6.68	6.73
Open Circuit Voltage - V_{oc} (V)	34.48	34.61	34.68	34.76
Short Circuit Current - I_{sc} (A)	7.03	7.13	7.18	7.21

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.

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

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