

BRIEF TECHNICAL SPECIFICATIONS OF PHOTON SOLAR PV MODULES - MEDIUM



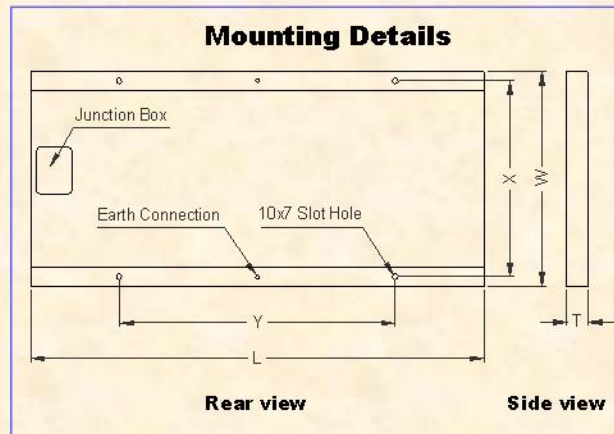
Electrical Characteristics (@STC of 1000W/m ² , 25°C, AM1.5)	PM040	PM045	PM050	PM055	PM060	PM065	PM070	PM075	PM080	PM090	PM0100	PM0110	PM0115
Nominal Voltage in Volts	12	12	12	12	12	12	12	12	12	12	12	12 / 24	12 / 24
Open Circuit Voltage (V _{oc}) in Volts	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6 / 43.2	21.6 / 43.2
Short Circuit Current (I _{sc}) in Amps	2.5	2.9	3.2	3.5	3.8	4.1	4.4	4.8	5.1	5.7	6.3	7.0 / 3.5	7.3 / 3.7
Maximum Power (P _m) in Watts	40	45	50	55	60	65	70	75	80	90	100	110 / 110	115 / 115
Voltage at Maximum Power (V _{mp}) in Volts	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7 / 35.4	17.7 / 35.4
Current at Maximum Power (I _{mp}) in Amps	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.2	4.5	5.1	5.7	6.2 / 3.1	6.5 / 3.25
Solar Cells per Module (Units)	36	36	36	36	36	36	36	36	36	36	36	36 / 72	36 / 72
Physical Parameters (see drawing below)													
Length x Width x Thickness — (LxWxT) mm	535x655x34	535x655x34 / 610x655x34	610x655x34	610x655x34	770x655x34	770x655x34	770x655x34 / 890x655x34	890x655x34	890x655x34	1150x655x34	1150x655x34	1325x655x34	1325x655x34
Weight—Kg	3.9	3.9 / 4.7	4.7	4.7	6.0	6.0	6.0 / 7.0	7.0	7.0	8.5	8.5	10.5	10.5
Mounting Holes Pitch (Y) - mm	200	200 / 300	300	300	510	510	510 / 510	510	510	900 & 510	900 & 510	900	900
Mounting Holes Pitch (X) - mm	611	611 / 611	611	611	611	611	611 / 611	611	611	611	611	611	611
Area—Sq. M	0.35	0.35 / 0.40	0.40	0.40	0.50	0.50	0.50 / 0.58	0.58	0.58	0.76	0.76	0.87	0.87
Junction Box Options (see table below)	JB3	JB3 / JB5	JB5	JB5	JB5	JB5	JB5	JB5	JB5	JB5	JB5	JB5	JB5

Notes:

- ¶ Measurement Tolerance on Electrical Parameters ± 5%. ¶ The Standard range of modules is supplied without blocking diodes. However, blocking diodes can be provided on specific customer request, at extra cost.
- ¶ Due to constant product modifications, Photon reserves the right to amend the above specifications without prior notice.

OTHER CHARACTERISTICS

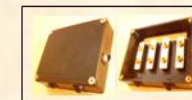
Type of Cell	Mono / Multi Crystalline Silicon
Front Face	Tempered Glass (Low Iron)
Encapsulate	Ethylene Vinyl Acetate
Frame	Anodized Aluminum
Junction Box	Weather proof Nylon 6
Warranty	Up to 25 years limited extended warranty



IEC 61215 / IEC 61730-1 / IEC 61730-2 & TUV Safety Class II certified

Junction Box

Junction Box – JB3



78 x 105 x 26 mm
Four Terminals

Junction Box – JB5



97 x 94 x 29 mm
Four Terminals,
Two 10A Diodes