

TECHNICAL DATA 3W TO 60W

Performance Under Standard Test Condition (STC)

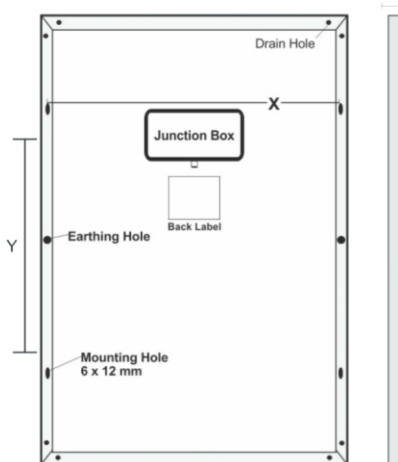
Nominal Maximum Power (Pmax)	3w	5w	10w	15w	20w	30w	40w	50w	55w	60w
Module Eff (%)	7.58	10.33	9.83	11.80	14.11	13.20	14.49	14.89	16.38	17.87
Optimum Operating Voltage (Vmp)	9.90	10.2	18.18	18.29	18.18	18.18	19.23	18.18	19.36	19.45
Optimum Operating Current (Imp)	0.33	0.49	0.55	0.82	1.1	1.65	2.08	2.75	2.84	2.93
Open Circuit Voltage (Voc)	11.34	11.34	22.68	22.68	22.68	22.68	22.82	22.68	22.96	23.02
Short Circuit Current (Isc)	0.35	0.52	0.59	0.68	1.19	1.77	2.22	2.96	3.02	3.08

Mechanical Specification

	185 mm x 220 mm x 17 mm (Optional 22 mm)	220 mm x 220 mm x 17 mm (Optional 22 mm)	300 mm x 350 mm x 17 mm (Optional 22 mm)	415 mm x 310 mm x 17 mm (Optional 22 mm)	465 mm x 350 mm x 17 mm (Optional 22 mm)	450 mm x 505 mm x 22 mm (Optional 22 mm)	415 mm x 665 mm x 22 mm (Optional 30 mm)	505 mm x 665 mm x 34 mm (Optional 30 mm)	505 mm x 665 mm x 34 mm (Optional 30 mm)	505 mm x 665 mm x 34 mm (Optional 30 mm)
Dimensions (L X W X H in mm)										
Weight(kg)	0.4 kgs	0.73 kgs	1.5 kgs	2.02 kgs	2.47 kgs	2.60 kgs	3.26 kgs	4.8 kgs	4.8 kgs	4.8 kgs
No of Cell	20	18	36	36	36	36	36	36	36	36
Cell Arrangement	4 x 5	6 x 3	9 x 4	9 x 4	9 x 4	12 x 3	9 x 4	9 x 4	9 x 4	9 x 4
Front Cover (Tempered Glass)	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass
Encapsulate	EVA	EVA	EVA	EVA	EVA	EVA	EVA	EVA	EVA	EVA
Back Cover	Backsheet	Backsheet	Backsheet	Backsheet	Backsheet	Backsheet	Backsheet	Backsheet	Backsheet	Backsheet
Junction Box with Bypass diode	IP 65 Certified 2-rail	IP 65 Certified 2-rail	IP 65 Certified 2-rail	IP 65 Certified 2-rail	IP 65 Certified 2-rail	IP 65 Certified 2-rail	IP 65 Certified 2-rail, 1 diodes junction box	IP 65 Certified 3-rail, 2 diodes junction box	IP 65 Certified 3-rail, 2 diodes junction box	IP 65 Certified 3-rail, 2 diodes junction box
Mounting Holes Pitch (Y)-mm	190	190	150	150	250	250	200	250	250	250
Mounting Holes Pitch (X)-mm	190	190	315	395	330	475	635	635	635	635

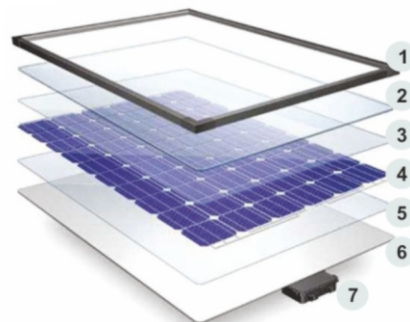
BACK VIEW

SIDE VIEW
17/22/34 mm



MAXIMUM OPERATING CONDITIONS

1. Aluminum Frame
2. Solar Tempered Glass
3. Encapsulant
4. Solar Cell String
5. Encapsulant
6. Backsheet
7. Junction Box



CERTIFICATIONS



BIS TESTED AS PER MNRE GUIDELINES

All Dimensions are in mm with +/-1% tolerance.

Maximum Operating Conditions

Operating Temperature	-40°C to +85°C
Maximum System Voltage	600V
Maximum Series Fuse Rating	6.5A/12A

Guarantees and Certifications

Product Warranty**	5 years
Performance Warranty***	Guaranteed Output Power - 90% for 10 Years, 80% for 25 Years

Refer to Pahal Solar's warranty document for terms and conditions.

Approvals & Certificates

IS 14286:2010 / IEC 61215:2005, IS 61730-1:2004 / IEC 61730-1:2005, IS 61730-2:2004 / IEC 61730-2:2005 ISO 9001:2015 / ISO 14001:2015 / OHSAS 18001:2007

Disclaimer : Specification included in the datasheet are subject to change without prior notice owing to conditions innovation on the product development and R&D Activities. PAHAL SOLAR reserves the right to make any adjustment to the information described here, Dataset contained in this specification do not form a representative of a single module data.