

**SPECIFICATIONS FOR SOLAR HOME LIGHT SYSTEM
VISTAR ELECTRONICS PVT LTD.**

S/N	PARAMETER	SPECIFICATIONS
1	SOLAR PHOTOVOLTAIC MODULE	Crystalline Si to IEC 61215 12V 37WP @ STC for Model II 12V 74WP @STC for Model IV
2	CFL LAMP	4Pin 9W- 11W
3	Light output	600+/-5% Lumen for 9W 900 +/-5% Lumen for 11W
4	Light Housing	ABS-Plastic with transparent lens for wall/ceiling mount
5	Light duration	M-II 2 lights 3-4 hours/d with daily charge M-IV 4 lights 304 hours/d with daily charge @Daily average Solar Insolation 5kwh/sq.mtr/d- Panel installed in shadow Free area.
6	Battery	12 V 40Ah @ C-10 VRLA/Tubular-M-II 12 V75Ah @C-10 VRLA/Tubular-M-IV
7	Lamp Electronics	Single PCB charge controller Individual Light Inverter PCB
8	Lamp electronics-Charger	Idle consumption <10mA Reverse blocking diode-Schottky-low forward drop <0.4V during Charge Positive charge Indication-Charge ON lights when Battery charge current is >= 0.25A Charge ON lights Temperature compensation for overcharge regulation: 2mV/degC/2V lead acid cell.
9	Lamp Electronics Inverter	High efficiency-Self excited-series parallel resonant mode with capacitive compensation- to drive a 4 pin CFL. No damage to electronics when lamp is Open or When lamp is short circuited,
10	Protections	Battery overcharge regulation Battery Low cut off- and autos reconnect after a recharge. Reverse blocking protection for PV panel. ON off control switch Battery Disconnect warning
11	Indications	Charge ON Battery Lo, battery Disconnect warning.
12	Dimensions: Solar panel Luminaire assembly	Approx 750x450mm x 40mm Approx 75x75x210 mm
13	Weight: Solar Panel Luminaire-assembly	4.3/5.8kgs 1.8kgs- Weight of battery as per Model & Technology used.
14	Governing Specifications	Ministry of New &Renewable Energy 2013-14 Govt of India

*Specifications subject to change for dimensions as per PV Module type-Battery Types.
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