



### TECHNICAL SPECIFICATIONS OF AVI LUMINARIES FOR SOLAR STREET LIGHT

Model	Enclosure	No of LED'S	Power drawn (W)	Lumens	In built Charge Controller (A)
CFL 11W	Compact	--	12	850	5
LED 05(04)(400)	Polycarbonate	5	4	400	5
LED 06(07)(700) C	Compact	6	7	700	5
LED 06(9)(0850) MNRE	PC	6	9	850	5
LED 09(10)(1000) C	Compact/PC	9	10	1000	5
LED 09(10)(1000) W	Wide	9	10	1000	5
LED 12(15)(1500) C	Compact	12	15	1500	5
LED 12(20)(2000) W	Wide	12	20	2000	15
LED 15(20)(2000) W	Wide	15	20	2000	15
LED 18(20)(2000) S	Slope	18	20	2000	15
LED 18(22)(2200) S	Slope	18	22	2200	15
LED 15(25)(2500) S	Slope	15	25	2500	15
LED 18 (25)(2500) S	Slope	18	25	2500	15
LED 24 (25)(2500) S	Slope	24	25	2500	15
LED 15 (30)(3000) S	Slope	15	30	3000	15
LED 18 (30)(3000) S	Slope	18	30	3000	15
LED 24 (35)(3500) S	Slope	24	35	3500	15
LED 24 (40)(4000) S	Slope	24	40	4000	15
LED 24 (45)(4500) S	Slope	24	45	4500	15

#### Specification of PV Module and Battery to be connected

Maximum PV Module wattage	= 15 x capacity of inbuilt charge controller
Battery Ah Minimum	= (P.V. module wattage x 12)/18
Recommended PV Module Wattage (w)	= 5 x Power drawn by luminary(w)
Recommended Battery for 2/3 day autonomy (AH)	= 4 X Power Drawn by Luminary(w)

#### Environment

Working Temperature	-5 to +50 degree centigrade
Working Humidity	Upto 90% RH

#### Specifications of LED

Lumen Efficiency	More than 110 lumens/watt
Make of led	Osram/Phillips/Cree
Dispersion Angle	>120 Degree
Color Temperature	5700-6500 k
Color Rendering Index	>70
Life Span	>50000Hrs with 70% lumens maintainance

#### Protections

#### Indications

Battery Low Cut Off Voltage (V)	11.2 V	Low battery Indications	Red
Battery Low Reconnect Voltage (V)	12.7 V	Charging Indications	Green
Overcharging Cut off Voltage (V)	14.4 V		
Charging Reconnect Voltage (V)	13.5 V		
Index Of Protections	IP 65		