

MARUTHI SOLAR SYSTEM, BANGALORE INDIA					
Department	Solar Energy			Form No.	
Title	Specification For SSL LED Luminary 18 W				
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SPECIFICIATION NO:

Sr. No.	Parameter	Value	
1	General		
1.1	Application	Solar PV Street Light systems, RV systems, Village electrification, standby light source	
1.2	Use	Outdoor	
1.3	Lamp Type	White color LED	
1.4	Lamp Wattage	18 W	
1.5	Rated Light output (Lux)	30 LUX when measured at 4 meter diameter from a height of 4 meter.	
1.6	Lamp color temperature	5500-6500° K),	
1.7	Light coverage	5 mts each side	
1.8	Rated Lamp life (Average)	>50000 Hrs	
1.9	Light output degradation after 500 hours continues ON	< 10%	
1.10	Humidity	95%RH	
1.11	Storage Temperature	-20 to +70°C	
1.12	Operating Temperature	0 to +50°C	
2	Electrical		
2.1	Rated working voltage	12V DC	
2.2	Working voltage range	10.5 to 14.4V DC	
2.3	Driver type	PWM high efficient driver	
2.5	Driver efficiency	> 80%	
2.9	Lamp power (Input)	22 Watts	
2.10	Current consumption @12VDC Input	1.8 A ± 10%	
2.11	Reverse Battery protection	Provided with fuse	
2.12	Overload protection	Provided with fuse	
2.13	Open Circuit Protection	Provided	
2.14	Dusk to Down Protection	Provided, The light works at full brightness for six hours and rest 6 hours with half brightness.	
2.15	Solar charging Current	6A (Max)	
	Prepared by	Verified by	Approved by
Signature			
Date			

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2.16	Regulator Type	PWM Series Regulator
2.17	Self Consumption	< 10 mA (With no LED glowing)
2.18	Low Cut off Voltage	10.8V(+/-0.2V)
2.19	Reconnect Voltage	12.5V(+/-0.2V)
2.20	High voltage boost voltage	15.0V(+/-0.2V)
2.21	High voltage float level	14.5V(+/-0.2V)
2.22	Battery Low indication	Red LED
2.23	Battery charging indication	Green LED
2.24	Reverse blocking protection from battery to Array during night	Provided
2.25	Temperature compensation	Provided
3	Mechanical	
3.1	Enclosure	Pole mounting with screws & diameter should be 34mm,CF Lamp in base up configuration
3.3	Case	Injection Molded Engineering Nylon back. Fire Retardant grade or Aluminum casing with reflector o back
3.4	Light Diffuser	UV stabilized / Poly carbonate type front cover.
3.5	Reflector	Highly reflective anodized aluminum
3.6	Color (case)	Black color/ suitable color
3.8	Ingress Protection	IP 54

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