

Solar Light System

AF1207

AI Furaat Solar Tech Manufacturing PLC

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

www.lightingglobal.org/products/af-1207

Valid until: June 30, 2021



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

5

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 1-year warranty covering manufacturing defects in the system

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
	Appliance ^a	Description		
included in kit	Main lighting unit	5 light points on, totaling 1400 lumens and 13.7 Watts; 12 V nominal voltage	2.4 hours	2 hours
	Radio	built-in to main unit (1 Watt, 12 V nominal voltage)	25 hours	1.5 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	4.1 full charge(s)	0.5 full charge(s)

Available daily electrical energy^c (Wh/day)

34

Performance measure

Brightness setting: Side Array and 4 Lamps On

Lighting full battery run time^d for main unit (hours)

6.1

Total lighting service (lumen-hours/solar-day)

3400

(includes the both main lighting unit and any auxiliary lights included with the product)

^a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

^b Without any other loads used during the run time

^c Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

^d Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

LIGHTING DETAILS



Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED lamp	4	1	On	280	100	71	6400	Wide	99%
Side Array	1	1	On	280	97	71	6500	Wide	99%

^e Lumen efficacy is the power consumption at a light point during the light output test.

^f Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

^g Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

^h Percent of the original light output that remains after 2,000 hours of run time

PORTS		
4	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are included.
4	Barrel jack	 12 V ports available to power the light points
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, physical ingress protection.
Level of water protection	Main Lighting Unit with Radio	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure; met
	LED bulb	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		11 watts
BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Sealed lead-acid
Battery package type		151*65*95 mm
Battery capacity		6.6 Ah
Battery nominal voltage		12 V
Battery status indication		Four indicators show the power quantity
PRODUCT DETAILS		
Manufacturer name		Al Furaat Solar Tech Manufacturing PLC
Product name		Solar Light System
Product model / ID number		AF1207
Contact information		muhyamag@gmail.com
Website		--
Dimensions (entire product in package)		37 x 27 x 16 cm
Mass		5180 g
SSS INFORMATION		
Specs sheet expiration date		June 30, 2021
Quality standards framework version		2019
Revision		2019.06