

SUNFLO Pico PV System

SF-P0830

Rahimafrooz Renewable Energy Limited

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

Verify online:

www.lightingglobal.org/products/rz-sf

Valid until: March 31, 2021



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

2

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

PERFORMANCE DETAILS

Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
		Used alone ^b	Used in combination ^c
Main lighting unit	2 lights points on totaling 340 lm	6.9 hours	5.7 hours
Mobile phone	Basic Phone (3.7 Wh battery)	5.4 full charge(s)	1.5 full charge(s)

Available daily electrical energy^c (Wh/day)

23

Performance measure

Brightness setting: High

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

7.1

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

2300

(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
2 W lamp	2	2	High	170	120	74	7400	Wide	98%

^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		
2	USB 2.0 type A	 Mobile phones can be charged. Adapters are included.
5	Barrel jack	 All ports are used for light points only
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	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		7.9 watts
BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		2 * 26650
Battery capacity		3.4 Ah
Battery nominal voltage		3.4 V
Battery status indication		Four red LEDs indicate the battery state of charge
PRODUCT DETAILS		
Manufacturer name		Rahimafrooz Renewable Energy Limited
Product name		SUNFLO Pico PV System
Product model / ID number		SF-P0830
Contact information		abu.khan@rahimafrooz.com
Website		www.rahimafrooz-solar.com
Dimensions (entire product in package)		36 x 18 x 7.6 cm
Mass		1868 g
SSS INFORMATION		
Specs sheet expiration date		March 31, 2021
Quality standards framework version		2019
Revision		2019.03