Bright SunBell

SunBell 80

Bright Products

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8

Verify online:
https://data.verasol.org/products/sek/bp-sunbell80
Valid until: January 31, 2024

Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits

Mobile charging

1 **Light point(s)**

Plug-and-play

WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m²/day)	
VeraSol Certified?	**Included in Kit?**	**Appliance[a]**	**Description**	**Used alone[b]**	**Used in combination[c]**
yes	included	Main lighting unit	1 light point on (High) totaling 150 lumens and 1.5 W power	3.5 hours	1.6 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	0.7 full charge(s)	0.4 full charge(s)

Available daily electrical energy[c] (Wh/day)	4

Performance measure	**Brightness setting: High**
Lighting full battery run time[d] for main unit (hours)	5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	530

[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]**
Solar Powered Lamp	1	3	High (with Lampshade)	140	97	85	5100	Omnidirectional	99%
			High (without Lampshade)	150	100	84	5100	Omnidirectional	99%
			Medium	not tested					
			Low	not tested					

[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			
1	**USB 2.0 type A**		Mobile phones can be charged. Adapters are included.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main unit with integrated lighting	Has protection from frequent rain; met IPX4
	PV module	Has protection from permanent outdoor exposure

SOLAR DETAILS	
PV module type	Monocrystalline silicon
PV maximum power	1.8 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium-ion
Specific Li-ion battery chemistry	lithium nickel manganese cobalt oxide
Battery package type	18650
Battery capacity	2.3 Ah
Battery nominal voltage	3.7 V
Battery status/ other indicator lights	One LED indicator shows charging and discharging conditions.

PRODUCT DETAILS	
Manufacturer name	Bright Products
Product name	Bright SunBell
Product model / ID number	SunBell 80
Contact information	info@bright-products.com
Website	http://bright-products.com/
Dimensions (entire product in package)	15 x 15 x 16 cm
Mass	640 g

SSS INFORMATION	
Specs sheet expiration date	January 31, 2024
Revision	2022.10