

Multi-functional Solar Lamp

CL-16 MOB (UPG-2)

Brand name: SUNLITE

Results based on test procedures detailed in IEC TS 62257-9-5:2024

Verify online:

<https://data.verasol.org/products/sek/sl-cl16>

Valid until: August 31, 2028



Meets the Requirements in IEC TS 62257-9-8:2025
for Size A kits

Mobile charging

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

2 year warranty covers product failure from normal & recommended use.

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
VeraSol Certified?	Included in kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	2 light points on Dual setting totaling 330 lumens and 2.3 W power	4.3 hours	1.1 hours
no	not included	Smart phone	Smart phone (15 Wh battery)	0.39 full charge(s)	0.29 full charge(s)

Available daily electrical energy [Wh/day]

8.6

Performance measure	Brightness setting: dual
Lighting full battery run timed for main unit [hours]	4.7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1440

^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 name	Light output [lm]	Power Consumption [W]	Lumen efficacy ^e [lm/W]	CRI ^f	CCT ^g	Lumen maintenance ^h
Integrated lamp	1	5	dual	260	2.3	110	79	6200	100
			torch	72	0.82	88	78	6300	100

^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 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.

SPECIAL FEATURES		
Constant Light	★	The product provides a constant light output and turns off when reaching its low voltage disconnect.
Durable Battery	★	< 1% capacity loss observed after the battery storage test.
PV Orientation Indicator	★	The Yellow LED indicator signifies charging to aid in PV orientation to help the user position the panel optimally.
External Battery Replaceability	★	Battery can be easily replaced post-warranty without opening the product.
Recycled Plastic	★	The entire plastic casing of the lamp is made with 100% recycled Polycarbonate plastic
Green Packaging	★	Made from recycled material, with no single-use plastic
Usage	★	Can be used by hanging, wall-mount, table-top, handheld and/or hands-free
PORTS		
1	USB 2.0 type A	
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	Has protection from frequent rain; met with IPX3 and an appropriate warning label
	PV module	Permanent rooftop installation for PV modules
SOLAR DETAILS		
PV Module Type		Monocrystalline silicon
PV Maximum Power		3.2 W
PV Rated Power		3.5 W
PV Open-Circuit Voltage (V _{OC})		5.4 V
MAIN UNIT BATTERY DETAILS		
Battery Replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery Chemistry		Lithium iron phosphate
Battery Capacity (tested)		3.6 Ah
Battery Capacity (rated)		3.6 Ah
Battery Nominal Voltage		3.2 V
Battery status / other indicator lights		One indicator for PV charging and one indicator for battery status
PRODUCT DETAILS		
Company Name (full)		India Impex
Company Name ("brand")		SUNLITE
Product Name		Multi-functional Solar Lamp
Product Model or ID Number		CL-16 MOB (UPG-2)
Company Contact Information		sagar@sunlite-solar.com
Company Website		www.sunlite-solar.com
SSS INFORMATION		
Expiration Date		August 31, 2028
Revision		2025.10