

Light Cube

TL18
Telesol Energy Company Limited

Verify online:
<https://data.verasol.org/products/sek/tsl-tl18>
Valid until: August 31, 2024

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



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

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

PERFORMANCE DETAILS

Setting	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	Total light output (lumens)
Integrated reading lamp (On)	1 LED on , 0.40 W power	3.4 hours	35 lumens
Integrated flashlight (On)	1 LED on , 0.43 W power	3.2 hours	32 lumens

Available daily electrical energy (Wh/day)	1.4
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Performance measure	Brightness setting: Integrated reading light (On)
Lighting full battery run time (hours)	4.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	120

LIGHTING DETAILS

Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy* (lm/W)	CRI**	CCT***	Distribution type	Lumen maintenance****
Integrated reading lamp	1	1	On	35	87	82	8100	Wide	99%
Integrated flashlight	1	1	On	32	74	83	8300	Narrow	not tested

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

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

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

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

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit with Integrated PV Module	Information
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		0.39 watts
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 package type		14500
Battery capacity		0.56 Ah
Battery nominal voltage		3.2 V
Battery status/ other indicator lights		None
PRODUCT DETAILS		
Manufacturer name		Telesol Energy Company Limited
Product name		Light Cube
Product model / ID number		TL18
Contact information		info@telesolenergy.com
Website		www.telesolenergy.com
Dimensions (entire product in package)		8.6 x 6.5 x 3.2 cm
Mass		95 g
SSS INFORMATION		
Specs sheet expiration date		August 31, 2024
Revision		2022.08