

LUMN Home Series Solar Lighting Kit

SHS40\_12W\_T4\_L2\_S2  
Omnivoltaic Energy Solutions Co. Ltd

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/omni-lmnhome>  
Valid until:   October 31, 2025



Meets the requirements in IEC TS 62257-9-8 for Size B Kits



Mobile charging

PAYG

Pay-As-You-Go option available

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system and a 1-year warranty for appliances and USB charging cable

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	3 light points on high totalling 730 lumens and 4.1 W power	7.9 hours	1.7 hours
yes	not included	Radio	portable (Li-ion battery: 1.0 Ah,3.7 V), with a power consumption of 0.39 W while in-use	88 hours	1.3 hours
no	not included	Fan	Small standing (16" or smaller diameter, 10 W power)	3.3 hours	2.2 hours
no	not included	Mobile phone	Smartphone (5.7 Wh)	4 full charge(s)	0.44 full charge(s)

Available daily electrical energy <sup>c</sup> (Wh/day)	33
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Performance measure	Brightness setting: LED lamp, Security Lamp and Tubelight on High
Lighting full battery run time <sup>d</sup> for main unit (hours)	7.9
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	5790

<sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.  
<sup>b</sup> Without any other loads used during the run time  
<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.  
<sup>d</sup> 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 <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
LED lamp	1	3	high	190	190	70	5100	Wide	100%
Security Lamp	1	3	high	190	170	70	5100	Wide	100%
LED tubelight	1	3	high	350	170	71	5100	Wide	100%

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.  
<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.  
<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)  
<sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

PORTS			
1	USB 2.0 type A		Mobile phones and radios can be charged. Adapters are included.
2	Barrel jack		12 V ports available to charge devices and power appliances and light points.
DURABILITY			
Overall durability and workmanship			Pass
Durability tests passed			Switch test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	LED lamp, tubelight	Water ingress protection not tested, meant for indoor use only.	
	PV module	Has protection from permanent outdoor exposure	
	Security Lamp	Has protection from frequent rain; met IP64	
SOLAR DETAILS			
PV module type			Polycrystalline silicon
PV maximum power			12 watts
MAIN UNIT BATTERY DETAILS			
Battery replaceability			Not easily replaceable with common tools.
Battery chemistry			Lithium iron phosphate
Specific Li-ion battery chemistry			lithium iron phosphate
Battery package type			32700
Battery capacity			12 Ah
Battery nominal voltage			3.3 V
Battery status/ other indicator lights			one indicator for battery level
PRODUCT DETAILS			
Manufacturer name			Omnivoltaic Energy Solutions Co. Ltd
Product name			LUMN Home Series Solar Lighting Kit
Product model / ID number			SHS40_12W_T4_L2_S2
Contact information			sales@omnivoltaic.com
Website			www.omnivoltaic.com
Dimensions (entire product in package)			Multiple packages. Contact manufacturer for more information.
Mass			Multiple packages. Contact manufacturer for more information.
SSS INFORMATION			
Specs sheet expiration date			October 31, 2025
Revision			2025.08