LUMN Home Series Solar Lighting System

SHS40_12W_T4_L2_S2 **Brand name: Omnivoltaic**

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

Verify online:

https://data.verasol.org/products/sek/omni-lmnhome

Valid until: July 31, 2028



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

Mobile charging

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.

PERFORMANCE DETAILS

Run time after a typical day of solar charging
(assuming 5kWh/m²/day)

VeraSol Certified?	Included in kit?	Annliance" Description		Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 light points on high totaling 770 lumens and 4 W power	8.2 hours	3.3 hours
yes	not included	Torch	38 lm torch (LiFePO4 battery: 0.64 Ah, 3.2 V)	110 hours	
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V), with a power consumption of 0.35 W while in use	67 hours	2.5 hours
no	not included	Smart phone	Smart phone (15 Wh battery)	1.5 full charge(s)	0.83 full charge(s)

Available daily electrical energy [Wh/day]	32
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Performance measure	Brightness setting: Three lights on high
Lighting full battery run time for main unit [hours]	8.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	6310

^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	CCTg	Lumen maintenance ^h
LED Tube	1	3	high	370	2.1	180	70	5200	98
LED lamp	1	3	high	200	1.1	190	69	5200	97
Security light	1	1	on	200	1.2	180	69	5200	97

^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 1,000 hours of run time.

PORTS					
1 USB 2.0 type A	-1:	Mobile phones, torches, and radios can be charged. Adapters are included.			
2 Barrel jack		12 V ports available to power light points.			
DURABILITY					
Overall durability and workmanship		Pass			
Durability tests passed		Switch test, Strain relief test, Physical ingress protection, PV durability test			
	Main Unit	Water ingress protection not tested, meant for indoor use only.			
Level of water protection	PV module	Permanent rooftop installation for PV modules			
	LED tube, LED lamp, and Security light	Water ingress protection not tested, meant for indoor use only.			
SOLAR DETAILS					
PV Module Type		Polycrystalline silicon			
PV Maximum Power		12 W			
PV Rated Power		12 W			
PV Open-Circuit Voltage (V _{OC})		21.6 V			
MAIN UNIT BATTERY DETAILS					
Battery Replaceability		Not easily replaceable with common tools.			
Battery Chemistry		Lithium iron phosphate			
Battery Package Type		32700			
Battery Capacity (tested)		12 Ah			
Battery Capacity (rated)		12 Ah			
Battery Nominal Voltage		3.3 V			
Battery status / other indicator lights		Display indicates battery level, charging, and remaining credit			
PRODUCT DETAILS					
Company Name (full)		OmniVoltaic Energy Solutions Company Limited / Omnivoltaic (Shenzhen) Co., Ltd.			
Company Name ("brand")		Omnivoltaic			
Product Name		LUMN Home Series Solar Lighting System			
Product Model or ID Number		SHS40_12W_T4_L2_S2			
Company Contact Information		team_sales@omnivoltaic.com			
Company Website		www.omnivoltaic.com			
Mass		n/a			
SSS INFORMATION					
Expiration Date		July 31, 2028			
Expiration Date		Cary 51, 2525			