

WeLite Solar Lantern

SR12A
Shenzhen Solar Run Energy Co., Ltd

Verify online:
<https://data.verasol.org/products/sek/ssr-sr12a-welite>
Valid until: December 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



Mobile charging

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
				Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	2 light points (integrated solar lantern and LED bulb) on (high) totaling 450 lumens and 4.2 W power	3 hours	1.6 hours
yes	included	Torch	60 lumens torch, (LiFePO4 battery: 0.58 Ah, 3.2 V)	5 hours	1.6 hours
no	not included	Mobile Phone	Basic phone (3.7 Wh battery)	2.2 full charge(s)	0.39 full charge(s)

Available daily electrical energy^c (Wh/day) 8.7

Performance measure	Brightness setting: High mode
Lighting full battery run time ^d for main unit (hours)	4.3
Lighting full battery run time of the torch powered by torch battery (hours)	4.3
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1850

^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
Integrated Solar Lantern	1	4	High	320	100	75	7900	Wide	100%
1 W LED Bulb	1	1	On	130	130	82	6600	Wide	100%
Torch	1	1	Torch Light	60	100	73	7600	Narrow	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 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	 USB port can charge mobile phones and radios. Adapters are included.
1	Barrel jack	 A 3 V port available to power appliances and light points.
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	Integrated Solar Lantern	Has protection from permanent outdoor exposure; met IPX5
	PV module	Has protection from permanent outdoor exposure
	LED Bulb	Has protection from occasional rain; met IPX1
	Torch	Has protection from frequent rain; met IPX3
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		4.9 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
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		32700
Battery capacity		5.9 Ah
Battery nominal voltage		3.2 V
Battery status/ other indicator lights		One digital display shows the charging status and remaining battery run time on the main lamp enclosure. Three LED indicators show the charging status.
PRODUCT DETAILS		
Manufacturer name		Shenzhen Solar Run Energy Co., Ltd
Product name		WeLite Solar Lantern
Product model / ID number		SR12A
Contact information		info@solarunoffgrid.com
Website		www.solarunoffgrid.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		December 31, 2024
Revision		2023.06