

# WeLite Solar Lantern

SR12A

Shenzhen Solar Run Energy Co., Ltd

Results based on test procedures detailed in

IEC 62257-9-5 v.4

Verify online:

<https://data.verasol.org/products/sek/ssr-sr12a-welite>

Valid until: December 31, 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

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/m <sup>2</sup> /day)	
			Used alone <sup>b</sup>	Used in combination <sup>c</sup>
	Appliance <sup>a</sup>	Description		
included in kit	Main lighting unit	2 light points (integrated solar lantern and LED bulb) on (high) totaling 350 lumens and 3.3 W power	3.7 hours	2.2 hours
	Torch	60 lumens torch, ([LiFePO <sub>4</sub> ] battery: 0.58 Ah, 3.2 V)	4.1 hours	2.2 hours
sold separately	Mobile Phone	Basic phone (3.7 Wh battery)	2.1 full charge(s)	0.6 full charge(s)

Available daily electrical energy<sup>c</sup> (Wh/day) 11

Performance measure	Brightness setting: High mode
Lighting full battery run time <sup>d</sup> for main unit (hours)	5.6
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)	1320

<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>a</sup> (lm/W)	CR <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Integrated Solar Lantern	1	4	High	320	100	74	7500	Wide	100%
LED Bulb	1	1	On	30	160	75	7100	Wide	100%
Torch	1	1	Torch Light	60	150	71	6100	Narrow	100%

<sup>a</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

SPECIAL FEATURES		
Remote controller	★ The integrated solar lantern can be remote controlled by the torch.	
Using time display	★ The lantern contains an 'using time display' which can remind the customer to charge on time.	
Individual switch	★ The LED Bulb has a separate extension cable with an individual on/off switch.	
PORTS		
2	USB 2.0 type A  Both USB ports can charge mobile phones and radios. Adapters are included. One of the USB ports is a PV USB Port that charges appliances directly from the solar panel. The other USB port is on the integrated solar lantern.	
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.	
Level of water protection	Integrated Solar Lantern	Has protection from permanent outdoor exposure; met IPX5
	PV module	Has protection from permanent outdoor exposure
	LED Blub	Has protection from frequent rain; met with IPX1 and an appropriate warning label
	Torch	Has protection from occasional rain; met with appropriate warning label
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	
Battery package type	32700	
Battery capacity	5.9 Ah	
Battery nominal voltage	3.2 V	
Battery status indication	One digital display shows the charging status and remaining battery run time onthe main lamp enclosure. Three LED indicators show the charging status.	
MARKS AND CERTIFICATIONS		
Factory certification	ISO 14001:2015, ISO 9001:2015	
Safety certification	ISO 45001:2018	
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	
Tested As	iTorch Solar Lantern	
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more information.	
Mass	n/a	
SSS INFORMATION		
Specs sheet expiration date	December 31, 2022	
Quality standards framework version	2020	
Revision	2020.12	