

# Solar Lantern

SR12A

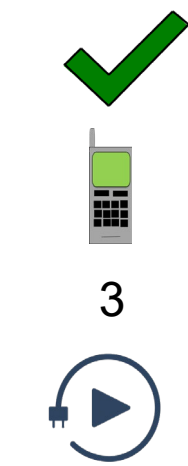
Brand name: Solar Run

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/ssr-sr12a-welite>

Valid until: December 31, 2026



Meets the Requirements in IEC TS 62257-9-8:2020 for Size A kits

Mobile charging

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)	
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	2 light points (integrated solar lantern and LED bulb) on (high) totaling 450 lumens and 4.2 W power	3.5 hours	2.0 hours
yes	included	Torch	59 lumens torch, (LiFePO4 battery: 0.52 Ah, 3.2 V)	25 hours	2.0 hours
yes	not included	Mobile Phone	Basic phone (3.7 Wh battery)	2.6 full charge(s)	--
yes	not included	Smart phone	Smart phone (5.7 Wh battery)	1.6 full charge(s)	0.5 full charge(s)
yes	not included	Radio	Portable radio (Li-ion battery: 2 Ah, 3.7 V), with a power consumption of 0.33 W while in use	44 hours	1.5 hours

Available daily electrical energy <sup>c</sup> (Wh/day)	13
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Performance measure	Brightness setting: 3 lights on High
Lighting full battery run time <sup>d</sup> 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

<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 name	Light output (lm)	Power consumption (W)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Integrated Solar Lantern	1	4	High	320	3.1	100	75	7900	Wide	100%
1 W LED Bulb	1	1	On	130	1.0	130	82	6600	Wide	100%
Torch	1	1	Torch Light	59	0.41	100	73	7600	Narrow	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		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 frequent rain; met IPX1	
	Torch	Has protection from occasional rain; met with IPX1 and an appropriate warning label	
SOLAR DETAILS			
PV module type			Polycrystalline silicon
PV maximum power			4.9 W
PV rated power			5.5 W
PV open-circuit voltage (V <sub>OC</sub> )			7 V
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
Rated Battery capacity			6 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			
Company name			Shenzhen Solar Run Energy Co., Ltd
Brand Name			Solar Run
Product name			Solar Lantern
Product model / ID number			SR12A
Contact information			info@solarunoffgrid.com
Website			www.solarunoffgrid.com
Dimensions (entire product in package)			24.2 x 21.2 x 13 cm
Mass			1290 g
SSS INFORMATION			
Specs sheet expiration date			December 31, 2026
Revision			2025.04