

# Solego 80 DC Solar Power System

Solego 80  
SolarWorX

Verify online:

<https://data.verasol.org/products/sek/swx-s80>

Valid until: January 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 for Size B Kits



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 5-year warranty covering manufacturing defects in the PV module, a 2-year warranty for the battery, lights and cables.

## PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	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>
yes	included	Main lighting unit	4 light points on (On) totaling 1040 lumens and 8.7 W power	11 hours	5.4 hours
no	not included	Television	Larger than 16" diagonal (18 W power consumption while in use)	5.7 hours	2.7 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	18 full charge(s)	1.3 full charge(s)

Available daily electrical energy <sup>c</sup> (Wh/day)	100
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Performance measure	Brightness setting: On
Lighting full battery run time <sup>d</sup> for main unit (hours)	11
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	11600

<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>
1 W lamp	1	1	On	120	130	88	7300	Wide	100%
2 W lamp	2	1	On	240	130	87	7200	Wide	100%
4 W lamp	1	1	On	450	110	87	7200	Wide	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

PORTS		
7	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are included.
5	Barrel jack	 12 V ports available to charge devices and power appliances and light points.
1	High Power Port	 12 V port for appliances with higher consumption
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection (lamps meet IP5X), PV durability tests
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure.
	Lamps	Has protection from frequent rain; met IPX3
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		25 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		26650
Battery capacity		8 Ah
Battery nominal voltage		12.8 V
Battery status/ other indicator lights		Four indicators for battery level
PRODUCT DETAILS		
Manufacturer name		SolarWorX
Product name		Solego 80 DC Solar Power System
Product model / ID number		Solego 80
Contact information		info@solarworx.io
Website		www.solarworx.io
Dimensions (entire product in package)		18 x 18 x 5.5 cm
Mass		1350 g
SSS INFORMATION		
Specs sheet expiration date		January 31, 2024
Revision		2022.02