

SunAce II

Sinoware Technology Co., Limited
Results based on test procedures detailed in
IEC 62257-9-5 v.4

Verify online:
<https://data.verasol.org/products/sek/sino-sa>
Valid until: March 31, 2023



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

2

Light point(s)



Plug-and-play



WARRANTY INFORMATION

2 year warranty covering manufacturing defects, but not normal use and tear or abuse. The warranty is void if the product is tampered with in any way, or if the case is opened by an unauthorized repair person.

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)		
			Used alone ^b	Used in combination ^c	Main unit and torch charging from PV simultaneously
	Appliance ^a	Description			
included in kit	Main lighting unit	1 light point totalling 240 lm	5.3 hours	2.4 hours	5.2 hours
	Torch/Remote	22 lumens torch, (LiFePO4 battery: 0.50 Ah, 3.2 V)	30 hours	2.5 hours	1.7 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	1.3 full charge(s)	0.6 full charge(s)	--

Available daily electrical energy^c (Wh/day) 7.1

Performance measure	Brightness setting: Super
Lighting full battery run time ^d for main unit (hours)	5.8
Lighting full battery run time of the torch/remote powered by torch/remote battery (hours)	8.7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1200

^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. Run times in this column assume that the main unit is charged from the PV and all other loads charged from the main unit.

^c Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously. Run times in this column assume that the main unit is charged from the PV and all other loads charged from the main unit.

^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
LED	1	4	Super	240	150	83	6300	Wide	99%
Torch/Remote	1	2	High	22	120	87	6600	Wide	99%

^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

SPECIAL FEATURES		
Torch/Remote	★ Torch acts as wireless remote to turn Main lamp on/off	
Metal Stand	★ Detachable stand allows product to be used as a desk lamp	
PORTS		
1	USB 2.0 type A  Mobile phones can be charged. Adapters are included.	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Drop test, Strain relief test, Physical ingress protection.	
Level of water protection	Main Unit	Has protection from frequent rain; met IPX3
	PV module	Has protection from permanent outdoor exposure.
	Torch/Remote	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	3 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	3.2 Ah	
Battery nominal voltage	3.2 V	
Battery status indication	One digital display shows the charging status and remaining battery run time on the main lamp enclosure	
PRODUCT DETAILS		
Manufacturer name	Sinoware Technology Co., Limited	
Product name	SunAce II	
Contact information	tommyhuang@sinoware.com.cn	
Website	www.sinoware.com.cn	
Dimensions (entire product in package)	20.5 x 13.5 x 15.5	
Mass	951 g	
SSS INFORMATION		
Specs sheet expiration date	March 31, 2023	
Quality standards framework version	2020	
Revision	2020.09	