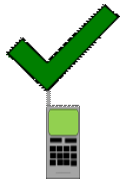


Sun Ace II

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Brand name: Sinoware

Results based on test procedures detailed in IEC TS 62257-9-5:2024

Verify online:
<https://data.verasol.org/products/sek/sino-sa>
Valid until: September 30, 2028



Meets the requirements in
IEC TS 62257-9-8:2025 for Size A kits

Mobile charging

2

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 ² /day)	
VeraSol certified?	Included in kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	1 light points on super totaling 300 lumens and 2.5 W power	4.4 hours	2.5 hours
yes	included	Torch/Remote	18 lm torch (LiFePO4 battery: 0.53 Ah, 3.2 V)	34 hours	2.5 hours
yes	not included	Mobile phone	Basic phone (3.7 Wh battery)	1.7 full charge(s)	0.63 full charge(s)

Available daily electrical energy [Wh/day]	9.9
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Performance measure	Brightness setting: Two lights on "super"
Lighting full battery run time for main unit [hours]	4.6
Lighting full battery run time of the torch powered by torch battery (hours)	7.9
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1240

^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.

* Run times calculated based on the configuration with the main unit charged from the PV module and torch charged from the main unit. Torch can also be charged from the PV module directly.


LIGHTING DETAILS								
Lamp name	Number of lamps	Number of settings	Setting name	Light output ^e [lm]	Power consumption [W]	Lumen efficacy ^f [lm/W]	CRI ^g	CCT ^h [K]
Integrated light	1	4	super	300	2.5	120	82	6000
Torch	1	2	high	18	1.1	98	85	6200

^e Light output meets the lumen maintenance requirements of IEC TS 62257-9-8: at least 95% of initial value at 1,000 h, or at least 90% of initial value at 2,000 h.

^f Lumen efficacy is the power consumption at a light point during the light output test.

^g Color rendering index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

^h Correlated color temperature in kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K).

PORTS		
1	USB 2.0 type A	 Mobile phones and torches 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, PV durability tests
Level of water protection	Main Unit	Has protection from frequent rain; met IPX3
	PV module	Permanent rooftop installation for PV modules
	Torch	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		3.3 W
PV rated power		3.3 W
PV rated open-circuit voltage (V _{OC})		6 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		26650
Battery capacity (tested)		3.7 Ah
Battery capacity (rated)		3.6 Ah
Battery nominal voltage		3.2 V
Battery status / other indicator lights		One digital display on the main lamp shows charging status and remaining battery run time
PRODUCT DETAILS		
Company name (full)		Sinoware Technology Co., Ltd.
Company name ("brand")		Sinoware
Product name		Sun Ace II
Product model or ID number		--
Company contact information		tommyhuang@sinoware.com.cn
Company website		www.sinoware.com.cn
Mass		n/a
SSS INFORMATION		
Expiration date		September 30, 2028
Revision		2025.11