

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/m²/day)				
VeraSol Certified?	Included in Kit?	A ppliance ^a	Description	Used alone ^b	Used in combination ^c	
yes	included	LED bulbs, reading light (integrated into main unit)	4 light points and 1 integrated light point totaling 810 lumens and 7.8 W power	4.4 hours	3.9 hours	
yes	included	Torch (integrated in main unit)	1 integrated light point (torch) totaling 53 lumens and 0.93 W power	39 hours		
yes	included	Radio (integrated into main unit)	Integrated battery with a power consumption of 0.52 W while in-use	75 hours	2.9 hours	
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	7.4 full charge(s)	1 full charge(s)	

Available daily electrical energy ^C (Mh/day)	27
I Available daily electrical energy (Wh/day)	31

Performance measure	Brightness setting: 4 LED bulbs on "Brighter", integrated reading light on "On"			
Lighting full battery run time ^d for main unit (hours)	4.4			
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3600			

^a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

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 (Im/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED bulbs	4	2	Brightest	190	110	85	6290	Wide	100%
Integrated reading light	1	1	On	64	64	76	5330	Wide	100%
Integrated torch	1	1	On	53	57	74	8190	Narrow	not tested

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

^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.

^fColor 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

PORTS							
1	USB 2.0 type A		Mobile phones can be charged. Adapters are included.				
4	Barrel jack	—————— 6.4 V ports available to power light points.					
DURABILITY							
Overall durability	and workmanship		Pass				
Durability tests passed			Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests				
		Main Unit	Has protection from occasional rain; met with appropriate warning label				
Level of water protection		PV module	Has protection from permanent outdoor exposure				
		LED bulb	Water ingress protection not tested, meant for indoor use only.				
SOLAR DETAIL	S						
PV module type			Polycrystalline silicon				
PV maximum power			11 watts				
MAIN UNIT BAT	TERY 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			32650				
Battery capacity			6 Ah				
Battery nominal	voltage		6.4 V				
Battery status/ other indicator lights			Four indicators for PV charging and battery status.				
PRODUCT DET	AILS						
Manufacturer na	me		Salpha Energy Ltd.				
Product name			Spark 10W				
Product model /	ID number		SE-10				
Contact information			sandra@salphaenergy.com				
Website			https://salphaenergy.com/				
Co-brand of			SF-310 Solar Lighting System, Qingdao Sunshine New Energy Co., Ltd				
Dimensions (entire product in package)			33 x 22 x 13 cm				
Mass			2650 g				
SSS INFORMATI	ON						
Specs sheet expiration date			October 31, 2024				
Revision			2022.08				