Flex 3e Solar Home Systems

Flex 3e Roofstar Technology Company Limited

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/me-flex3e

Valid until: May 31, 2024



Meets the requirements in IEC TS 62257-9-8 for Size B Kits



Mobile charging



Light point(s)





Run time after a typical day of solar charging

WARRANTY INFORMATION

A 2-year warranty for the main unit and kit, and a 1-year warranty for optional appliances.

PERFORMANCE DETAILS

				(assuming 5kWh/m²/day)		
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c	
yes	included	LED Lantern	3 light points on High totaling 480 lumens and 4.8 W power	22 hours	14 hours (all three lamps used together)	
yes	included	Torch	30 lumen torch (LiFePO4 battery: 400 mAh, 3.3 V)	22 hours	5.5 hours	
yes	included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use	24 hours	0.93 hours	
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	1.8 full charge(s)	3.8 full charge(s)	

	Available daily electrical energy ^c (Wh/day)	29
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Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	5.4
Lighting full battery run time of the torch powered by torch battery (hours)	6.4
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2920

^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 (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED Lantern	3	2	High Mode	160	100	78	7800	Wide	98%
Torch	1	1	On	30	100	81	6800	Wide	100%

^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

Remote	<u> </u>	Torch acts as a wireless r	remote control to turn lamps On and Off				
PORTS		Toron dots as a wireless i	cinicio control to turni ampo on anti on				
1	USB 2.0 type A	-	USB output port on each LED Lantern. Mobile phones and radios can be charged. Adapters are included.				
DURABILITY							
Overall durability	y and workmanship		Pass				
Durability tests	passed		Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests				
Level of water protection		LED Lantern	Has protection from frequent rain; met IPX4				
		PV module Has protection from permanent outdoor exposure					
		Torch Has protection from occasional rain; met with appropriate warning label					
		Radio	Has protection from occasional rain; met with appropriate warning label				
SOLAR DETAIL							
PV module type			Polycrystalline silicon				
PV maximum po	ower		11 watts (one 3 W and one 8 W PV module)				
MAIN UNIT BA	TTERY DETAILS						
Battery replaces	ability		Easily replaceable with common tools; however, the warranty is void if product is opened.				
Battery chemist	ry		Lithium iron phosphate				
Battery package	e type		26650				
Battery capacity	1		10.2 Ah				
Battery nominal	voltage		3.2 V				
Battery status/ other indicator lights			Four LEDs indicate different battery capacity levels on the LED Lanterns; Three LED indicators show the working status of the Torch.				
PRODUCT DET	TAILS						
Manufacturer na	ame		Roofstar Technology Company Limited				
Product name			Flex 3e Solar Home Systems				
Product model / ID number			Flex 3e				
Contact information			yanyan.sun@roofstartech.com				
Website			www.roofstartech.com				
Dimensions (entire product in package)			37 x 19 x 14 cm				
Mass			2790 g				
SSS INFORMATIO	DN						
Specs sheet ex	piration date		May 31, 2024				
Revision			2020.11				