Radiance Compact Solar Lantern

F200 Freeplay Energy

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/fe-f200

Valid until: April 30, 2024



Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits



Mobile charging



Light point(s)



Plug-and-play



Run time after a typical day of solar

WARRANTY INFORMATION

PERFORMANCE DETAILS

12 months for entire product, including battery

		charging (assuming 5kWh/m²/day)			
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	1 integrated lamp on max totaling 210 lumens and 1.7W power	3 hours	1.2 hours
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use	6.6 hours	0.91 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	11 full charge(s)	0.3 full charge(s)

Available daily electrical energy ^c (Wh/day) 4	
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Performance measure	Brightness setting: max
Lighting full battery run time ^d 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)	250

^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
Integrated lamp	1	4	Max	210	120	74	6200	Omnidirectional	100%
Integrated torch	1	1	On	55	150	71	6100	Narrow	97%

^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 and radios can be charged. Adapters are included.			
DURABILITY					
Overall durability and workmanship		Pass			
Durability tests passed		Switch test, Drop test, Physical ingress protection, PV durability tests			
	Main Unit	Has protection from frequent rain; met IPX3			
Level of water protection	PV module	Has protection from permanent outdoor exposure.			
SOLAR DETAILS					
PV module type		Polycrystalline silicon			
PV maximum power		1.8 watts			
MAIN UNIT BATTERY DETAILS	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 capacity		5.8 Ah			
Battery nominal voltage		3.2 V			
Battery status/ other indicator lights		four indicators are for PV charging and battery level			
PRODUCT DETAILS					
Manufacturer name		Freeplay Energy			
Product name		Radiance Compact Solar Lantern			
Product model / ID number		F200			
Contact information		vjenkins@freeplayenergy.com			
Website		www.freeplayenergy.com			
Dimensions (entire product in package)		17 x 17 x 20 cm			
Mass		790 g			
SSS INFORMATION					
Specs sheet expiration date		April 30, 2024			
Revision		2022.04			