E-20-06_LP112 Solar Home System

E-20-06_LP112

Shenzhen Poweroak Newener Co., Ltd

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/po-e20 Valid until: August 31, 2024



WARRANTY INFORMATION

A 2- year warranty covering defects in materials and workmanship for battery, PV module, and lights and a 1-year warranty for all other included electrical appliances.

PERFORMANCE DETAILS

				Run time after a ty char	ypical day of solar ging
				(assuming 5	kWh/m²/day)
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 light points on high totaling 650 lumens and 5 W	2.6 hours	2.6 hours
yes	not included	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with rated power consumption of 0.32 W while in use.	44 hours	2.1 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	2.5 full charge(s)	0.71 full charge(s)

Available daily electrical energy^c (Wh/day)

Brightness setting: Both 1.2 W lamps and 2.5 W lamp on high **Performance measure** Lighting full battery run time^d for main unit (hours) 2.6 Total lighting service (lumen-hours/solar-day)

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(includes the both main lighting unit and any lights with internal batteries included with the product)

^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.

LIGHTING DETAILS									
Lamp name	Number of lamps	Number of settings	Setting	Light output (Im)	Lumen efficacy ^e (Im/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
1.2 W	2	3	High	150	150	70	6500	Wide	100%
2.5 W	1	3	High	350	350	81	5700	Wide	100%

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

^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

SPECIAL FEAT	URES						
PAYG	\star	Pay-As-You-Go enabled					
PORTS							
2	USB 2.0 type A		Mobile phones and radios can be charged. Phone adapter is included.				
4	Barrel jack		12 V ports available to charge devices and power appliances and light points.				
DURABILITY							
Overall durability	y and workmanship		Pass				
Durability tests p	bassed		Switch test, Strain relief test, Physical ingress protection, PV durability tests				
		Main unit	Water ingress protection not tested, meant for indoor use only.				
Level of water protection		PV module	Has protection from permanent outdoor exposure				
SOLAR DETAIL	.S						
PV module type			Polycrystalline silicon				
PV maximum po	ower		6.8 watts				
MAIN UNIT BAT	TERY DETAILS						
Battery replacea	bility		Not easily replaceable with common tools.				
Battery chemistr	У		Lithium iron phosphate				
Specific Li-ion b	attery chemistry		lithium iron phosphate				
Battery package	e type		18650				
Battery capacity			3 Ah				
Battery nominal	voltage		6.4 V				
Battery status in	dication		Two indicators for battery status.				
MARKS AND C	ERTIFICATIONS						
Factory certificat	tion		ISO 14001:2015, ISO 45001:2018, ISO 9001:2015				
PRODUCT DET	AILS						
Manufacturer na	ime		Shenzhen Poweroak Newener Co., Ltd				
Product name			E-20-06_LP112 Solar Home System				
Product model / ID number			E-20-06_LP112				
Contact information			Jack_Sun@poweroak.net				
Website			http://www.poweroak.solar/eb150				
Dimensions (entire product in package)			Multiple packages. Contact manufacturer for more information.				
Mass			n/a				
SSS INFORMATI	ON						
Specs sheet exp			August 31, 2024				
Revision			2024.7				