P-100-55_LP2255 Solar Home System

P-100-55_LP2255 Shenzhen Poweroak Newener Co., Ltd

ts based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



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



Mobile charging

Pay-As-You-Go option available



Light point(s)



Plug-and-play



Run time after a typical day of solar

WARRANTY INFORMATION

A 2-year warranty covering manufacturing/workmanship defects for the battery, solar panel, and lights and a 1-year warranty for appliances.

				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	Two 2.5 W and two 5.7 W lamps on high, totalling 2350 Im and 16 W	4.9 hours	2.2 hours	
yes	included	Stand fan	16" diameter table fan (14 W power on high)	9.2 hours	3.4 hours	
no	not included	Smart phone	Smart phone (5.7 Wh battery)	13 full charge(s)	0.81 full charge(s)	
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.	170 hours	2.4 hours	
yes	not included	32" TV	32" diagonal (15 W power consumption while in-use)	8.5 hours	1.4 hours	

Available daily electrical energy ^c (Wh/day)	110

Performance measure	Brightness setting: All lights on high		
Lighting full battery run time ^d for main unit (hours)	4.9		
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	11600		

^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	ССТ ⁹	Distribution type	Lumen maintenance ^h
2.5 W lamp	2	3	High	370	150	80	5800	Wide	100%
5.7 W lamp	2	3	High	810	140	80	5800	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.

^f Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

⁹ 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 FEATURE	S					
PAYG	*	Pay-As-You-Go enabled				
PORTS						
4	USB 2.0 type A		Mobile phones and radios can be charged. Adapters are included.			
. •	Barrel jack	-	12 V ports are available to power appliances and light points.			
DURABILITY						
Overall durability and	l workmanship		Pass			
Durability tests passe	ed		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 protect	tion	PV module	Has protection from permanent outdoor exposure			
		Stand fan	Water ingress protection not tested, meant for indoor use only.			
SOLAR DETAILS			Debugget/Face/Face			
PV module type			Polycrystalline silicon			
PV maximum power			51 watts			
MAIN UNIT BATTER						
Battery replaceability			Not easily replaceable with common tools.			
Battery chemistry			Lithium-ion			
Specific Li-ion battery	y chemistry		lithium iron phosphate			
Battery package type	1		8-28*26700			
Battery capacity			8.10 Ah			
Battery nominal volta	ge		12.8 V			
Battery status indicati	ion		One indicator showing charge-to-full time, remaining capacity, and discharge-to-empty time.			
MARKS AND CERTI	FICATIONS					
Factory certification			ISO 9001:2015, ISO 14001:2015, ISO 45001:2018			
PRODUCT DETAILS						
Manufacturer name			Shenzhen Poweroak Newener Co., Ltd			
Product name			P-100-55_LP2255 Solar Home System			
Product model / ID number			P-100-55_LP2255			
Contact information			Jack_Sun@poweroak.net			
Website			www.poweroak.com			
Dimensions (entire product in package)			Multiple packages. Contact manufacturer for more information.			
Mass			n/a			
SS INFORMATION		,				
Specs sheet expiration date			October 31, 2023			
Revision			2021.09			