

PBOX P6

P6B80S20

Leadsun Technology Co. Ltd/ Powerband Green Energy Ltd.

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

www.lightingglobal.org/products/l-pboxp6

Valid until: June 30 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system and battery, and a 1-year warranty covering all appliances.

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
	Appliance ^a	Description		
included in kit	Main lighting unit	4 light points on High totaling 1040 lumens and 8.5 W power	7.7 hours	2.2 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	12.4 full charge(s)	0.5 full charge(s)
	Radio	portable [Li-ion] battery: 1800 mAh, 3.7 V, with a power consumption of 0.3 W while in-use	150 hours	1.7 hours
	Torch	350 lumen torch, [Li-ion] battery: 1800 mAh, 3.7 V	20 hours	2.2 hours
	Fan	16" Fan with 10 W power consumption while in-use	6.9 hours	2.8 hours
	Television	19" diagonal (9.5 W power consumption while in-use)	7.5 hours	1.1 hours

Available daily electrical energy^c (Wh/day) 66

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	7.7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	8000

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 Lamp	4	2	High	260	120	83	5050	Wide	100%

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

^f Color 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		
4	USB 2.0 type A	 Four 5 V USB ports for mobile charging
3	Barrel jack	 Two 12 V/2 A barrel ports for LED lamps, one 12 V/5 A barrel port for other 12 V appliances
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection.
Level of water protection	Main Unit	not assessed.
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		19 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		4 x 32650
Battery capacity		5.8 Ah
Battery nominal voltage		3.2 V
Battery status indication		Four LEDs indicate solar charging status and battery level and one red LED indicates fault status
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2015
PRODUCT DETAILS		
Manufacturer name		Leadsun Technology Co. Ltd/ Powerband Green Energy Ltd.
Product name		PBOX P6
Product model / ID number		P6B80S20
Contact information		Freddy Tong, sales@pboxlighting.com, (+86)756-868-0199
Website		www.pboxlighting.com
Co-brand of		PBOX P6 Solar Home System, Leadsun Technology Co. Ltd
Dimensions (entire product in package)		46 x 37 x 14 cm
Mass		5050 g
SSS INFORMATION		
Specs sheet expiration date		June 30 2022
Quality standards framework version		2020
Revision		2020.06