

bPower50

PW-B02
BBOX Ltd

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

Verify online:

www.lightingglobal.org/products/bb-home

Valid until: July 31, 2021



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

5

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A minimum of two years if purchased on payment plan. If not sold on payment plan, two years for main control unit, solar panel and lights, and one year for all other accessories.

PERFORMANCE DETAILS

	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	4 light points on totaling 480 lumens and 4.8 W power	32 hours	4.8 hours
	BBOX 24" TV	24" diagonal (11.2 W power)	14 hours	2.5 hours
	BBOX Torch	2500 mAh, 170 lumens torch, 3.7 V nominal voltage	79 hours	4.8 hours
	Radio	Portable (2.4 Ah battery, 3.7 V nominal voltage)	220 hours	3.7 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	17 full charge(s)	1.3 full charge(s)
	Fan	BBOX 16" stand fan (13 W power)	11 hours	6.2 hours

Available daily electrical energy^c (Wh/day)

146

Performance measure

Brightness setting: High

Lighting full battery run time^d for main unit (hours)

39

Lighting full battery run time portable light (hours)

7.6

Total lighting service (lumen-hours/solar-day)

14900

(includes the both main lighting unit and any auxiliary lights 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 (lm)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED lamp	4	1	On	120	103	80	CCT "Daylight" (>5000 K)	Wide	>99%
Portable light	1	3	High	170	126	84	CCT "Daylight" (>5000 K)	Wide	99%
			Medium	120	129	84	CCT "Daylight" (>5000 K)	Wide	99%

^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

SPECIAL FEATURES**PAYG****Pay-as-You-Go enabled****PORTS**

2

USB 2.0 type A

Mobile phone and portable light can be charged. Adapters are included.

6

Barrel jack

12 V ports available to power lights, TV, and charge devices.

DURABILITY

Overall durability and workmanship	Pass
Durability tests passed	Switch test, Drop test (torch and radio only), Strain relief test, Physical ingress protection.
Level of water protection	Main Lighting Unit
	PV module
	Torch

SOLAR DETAILS

PV module type	Polycrystalline silicon
PV maximum power	49 watts

BATTERY DETAILS

Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry	Sealed lead-acid
Battery package type	181mm x 167 mm x 76mm
Battery capacity	17 Ah
Battery nominal voltage	12 V
Battery status indication	5 indicators to denote product operation condition

MARKS AND CERTIFICATIONS

Factory certification	ISO 9001:2015
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PRODUCT DETAILS

Manufacturer name	BBOXX Ltd
Product name	bPower50
Product model / ID number	PW-B02
Contact information	c.baker-brian@bbox.co.uk
Website	www.bbox.co.uk
Dimensions (entire product in package)	Product provided in several packages; contact manufacturer for more information.
Mass	14400 g

SSS INFORMATION

Specs sheet expiration date	July 31, 2021
Quality standards framework version	2018
Revision	2020.03