

bPower50

PW-B05
Bboxx Ltd

Verify online:

<https://data.verasol.org/products/sek/bb-home>

Valid until: April 30, 2024

Results 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

PAYG

Pay-As-You-Go option available

5

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 24-month "minimum" warranty for main control unit, solar panel, and light and 12 months for all other if on payment plan. If not sold on payment plan, 24 months for main control unit, solar panel, and lights, and 12 months on for all accessories

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)		
				Used alone ^b	Used in combination ^c	Featured Combination (Kit with security light)
yes	included	Main lighting unit	4 light points on totaling 480 lumens and 4.7 W power	31 hours	12 hours	6.6 hours
yes	included	BBOXXX 24" TV	24" diagonal (11 W power)	16 hours	6 hours	8.8 hours
yes	included	Portable light	2500 mAh, 150 lumens torch, 3.7 V nominal voltage	77 hours	12 hours	1.7 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	28 full charge(s)	3 full charge(s)	1.7 full charge(s)
yes	included	Radio	Portable (2.4 Ah battery, 3.7 V nominal voltage)	260 hours	9.1 hours	1.7 hours
no	not included	Security light	Single light point identical to the main lights, but with a motion sensor	120 hours	--	20 hours

Available daily electrical energy^c (Wh/day)

150

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	31
Lighting full battery run time of the portable light powered by portable light battery (hours)	7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	15800

^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	100	80	6300	Wide	99%
Portable light	1	3	High	150	110	84	6100	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, Strain relief test, Physical ingress protection, PV durability tests	
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	Portable light	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	49 watts	
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	
Specific Li-ion battery chemistry	lithium iron phosphate	
Battery package type	16 (4S4P) x 26650	
Battery capacity	13.2 Ah	
Battery nominal voltage	12.8 V	
Battery status indication	5 indicators to denote product operation condition	
PRODUCT DETAILS		
Manufacturer name	Bboxx Ltd	
Product name	bPower50	
Product model / ID number	PW-B05	
Contact information	c.baker-brian@bboxx.co.uk	
Website	www.bboxx.com	
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more information.	
Mass	16500 g	
SSS INFORMATION		
Specs sheet expiration date	April 30, 2024	
Revision	2022.01	