bPower60 Solar Home System

PW-A03 (main control unit), Kit 01 Bboxx 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/bb-bpower60

Valid until: May 31, 2025



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



Mobile charging

PAYG

Pay-As-You-Go option available



Light point(s)



Plug-and-play



Run time after a typical day of solar

WARRANTY INFORMATION

PERFORMANCE DETAILS

A minmum of three years warranty for the main control unit, solar panel and lights; one year warranty for all accessories.

				char	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 totaling 540 lumens and 4.2 W power	14.3 hours	5 hours
yes	included	Torch	180 lumens torch, Li-ion battery: 2.5 Ah, 3.7 V)	36.4 hours	5 hours
yes	included	Television	24" diagonal (9.6 W power consumption while in-use)	6.8 hours	2.5 hours
yes	included	Radio	portable Li-ion battery: 2.4 Ah, 3.7 V, with a power consumption of 0.72 W while in-	70.2 hours	3.8 hours
yes	included	Mobile phone	Smart phone (5.7 Wh battery)	8.6 full charge(s)	1.3 full charge(s)

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Available daily electrical energy ^c (Wh/day)	62

Performance measure	Brightness setting: Three dimmable lights on high and torch		
Lighting full battery run time ^d for main unit (hours)	14		
Lighting full battery run time of the Torch powered by Torch battery (hours)	6.9		
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	8150		

^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 (Im/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Dimmable Bulb	3	3	High	180	130	82	6000	Wide	99%
Torch	1	3	High	180	130	83	6200	Wide	98%

^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.

^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

Mobile phones, torch and radios can be charged. Adapters are included. 3 Barrel jack	PORTS						
Durability Pass Switch test, Drop test. Strain relief test. Physical ingress protection. PV durability tests	2	USB 2.0 type A	Mobile phones, torch and radios can be charged. Adapters are included.				
Durability Pass Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests	3	Barrel jack	——————————————————————————————————————				
Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests Main Unit Water ingress protection not tested, meant for indoor use only.							
Main Unit Water ingress protection not tested, meant for indoor use only. PV module Has protection from permanent outdoor exposure Torch Has protection from permanent outdoor exposure Radio Has protection from occasional rain; met with appropriate warning label Radio Has protection not tested, meant for indoor use only. SOLAR DETAILS PV module type Polycrystalline silicon PV maximum power 20 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 Sattery package type 26650 x 6 Battery capacity 9.9 Ah Battery nominal voltage 6.4 V Battery nominal voltage 6.4 V Battery status/ other indicator lights Screen on main unit provides battery status, payment status and support. PRODUCT DETAILS Manufacturer name Bboxx Ltd. Product model / ID number PW-A03 (main control unit), Kit 01 Contact information Cabaker-brian@bboxx.co.uk Website www.bboxx.com Multiple packages. Contact manufacturer for more information. Mass SSS INFORMATION Specs sheet expiration date May 31, 2025	Overall durability	and workmanship		Pass			
Level of water protection PV module	Durability tests p	Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests			
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