Meets the Lighting Global Solar Home System Kit Quality Standards
 Mobile charging
 Pay-As-You-Go option available
 4 Light point(s)
 Plug-and-play



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

PERFORMANCE DETAILS

			Run time after a typical day of solar charging		
			(assuming 5kWh/m²/day)		
	Appliance ^a	Description	Used alone ^b	Used in combination ^c	
included in kit	Main lighting unit	3 light points on totaling 420 lumens and 3.6 W power	16 hours	8.1 hours	
	Torch	150 lumens torch, Li-ion battery: 2.5 Ah, 3.7 V)	35 hours	8.3 hours	
	Radio	portable Li-ion battery: 2.2 Ah, 3.7 V, with a power consumption of 0.66 W while in-use	76 hours	6.2 hours	
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	8.5 full charge(s)	2.1 full charge(s)	

Available daily electrical energy^c (Wh/day)

58

Performance measure	Brightness setting: On	
Lighting full battery run time ^d for main unit (hours)	16	
Lighting full battery run time of the torch powered by torch battery (hours)	6.4	
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	6840	

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 (Im)	Lumen efficacy ^e (Im/W)	CRI ^f	CCTª	Distribution type	Lumen maintenance ^h
Bulb	3	1	On	140	130	83	6300	Wide	100%
Torch	1	3	High	150	110	83	6400	Wide	100%

 $^{\rm e}$ Lumen efficacy is the power consumption at a light point during the light output test.

^fColor 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

PORTS							
2	USB 2.0 type A		Mobile phones, torch and radios can be charged. Adapters are included.				
2	Barrel jack -		12 V ports available to charge devices and power appliances and light points.				
DURABILITY							
Overall durability a	Overall durability and workmanship		Pass				
Durability tests pas	Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection.				
М		Main Unit	Water ingress protection not tested, meant for indoor use only.				
Level of water prot			Has protection from permanent outdoor exposure				
Level of water protection		Torch	Has protection from occasional rain; met with appropriate warning label				
		Radio	Has protection from occasional rain; met with appropriate warning label				
SOLAR DETAILS							
PV module type			Polycrystalline silicon				
PV maximum power			20 watts				
MAIN UNIT BATT	ERY DETAILS						
Battery replaceabi	lity		Not easily replaceable with common tools.				
Battery chemistry			Lithium iron phosphate				
Battery package type			26650 x 6				
Battery capacity			9.9 Ah				
Battery nominal voltage			6.4 V				
Battery status indication			Screen displays the battery level and credit status.				
BRODUCT DETAIL							
PRODUCT DETAILS Manufacturer name			Bboxx Ltd				
Product name			bPower20 Solar Home System				
Product model / ID number			PW-A01 (main control unit)				
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			4200 g				
SSS INFORMATION	N						
Specs sheet expiration date			February 28, 2023				
Quality standards framework version			2020				
Revision			2021.09				