bPower20 Solar Home System
PW-A01 (main control unit)
Bboxx Ltd
Results based on test procedures detailed in
IEC 62257-9-5 v.4



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging



Pay-As-You-Go option available



Light point(s)



Plug-and-play



Run time after a typical day of solar charging

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

## PERFORMANCE DETAILS

			(assuming 5	kWh/m²/day)
	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
±	Main lighting unit	3 light points on totaling 420 lumens and 3.6 W power	13 hours	7.9 hours
included in kit	Torch	150 lumens torch, Li-ion battery: 2.5 Ah, 3.7 V)	34 hours	8.1 hours
inclu	Radio	portable Li-ion battery: 2.2 Ah, 3.7 V, with a power consumption of 0.66 W while in-use	70 hours	6.1 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	8.4 full charge(s)	2 full charge(s)

Available daily electrical energy<sup>c</sup> (Wh/day) 56

Performance measure	Brightness setting: On	
Lighting full battery run time <sup>d</sup> for main unit (hours)	13	
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)	5900	

- a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.
- <sup>b</sup> Without any other loads used during the run time
- <sup>c</sup> 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 <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Bulb	3	1	On	140	130	83	6300	Wide	100%
Torch	1	3	High	150	110	83	6400	Wide	100%

<sup>&</sup>lt;sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

Color Rendering Index. An index of 100 is equivalent to vieiwing objects in daylight; above 80 is considered good.

GOrrelated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>&</sup>lt;sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

PORTS					
2 u	SB 2.0 type A	<b>—</b>	Mobile phones, torch and radios can be charged. Adapters are included.		
2 в	arrel jack	-	12 V ports available to charge devices and power appliances and light points.		
DURABILITY					
Overall durability and wor	kmanship		Pass		
Durability tests passed			Switch test, Drop test, Strain relief test, Physical ingress protection.		
Level of water protection  Main Unit  PV module  Torch		Main Unit	Water ingress protection not tested, meant for indoor use only.		
		PV module	Has protection from permanent outdoor exposure		
		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 BATTERY DE	TAILS				
Battery replaceability			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.		
PRODUCT DETAILS					
Manufacturer name			Bboxx Ltd		
Product name			bPower20 Solar Home System		
Product model / ID number	er		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			<u></u>		
Specs sheet expiration date			October 31, 2022		
Quality standards framew	ork version		2020		
Revision			2020.10		