Flexx40
PW00450201/PW00480101CU
Bboxx Ltd.

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**

3 **Light point(s)**

▶️ **Plug-and-play**

WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system and a 1-year warranty for the included appliaces with batteries and accessories.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m²/day)	
				Used alone[b]	Used in combination[c]
yes	included	Main lighting unit	three light points on High totaling 540 lumens and 3.8W power	10.3 hours	7.7 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	7.6 full charge(s)	1.9 full charge(s)
no	not included	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in	63 hours	5.8 hours

Available daily electrical energy[c] (Wh/day)	41

Performance measure	Brightness setting: High
Lighting full battery run time[d] for main unit (hours)	10.3
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	5560

[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]
Light Bulb	3	2	High	180	141	83	6400	Wide	100%
			Low	90	143	83	6400		

[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	★	**PW00450201 has a token-based Pay-As-You-Go (PAYG) platform**	
PAYG IoT	★	**PW00480101CU has an IoT-based PAYG platform**	
LEDs	★	**UV-free LEDs are used to optimize health and safety as well as efficiency.**	

PORTS			
2	USB 2.0 type A		Mobile phones can be charged. Adapters are included.
3	Barrel jack		6.4V ports available to power included light points.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch 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
	Light Bulb	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	10.4 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Specific Li-ion battery chemistry	lithium iron phosphate
Battery package type	other
Battery capacity	6.3 Ah
Battery nominal voltage	6.4 V
Battery status/ other indicator lights	There are four battery capacity LED indicators associated with the state-of-charge on the main unit's display.

PRODUCT DETAILS	
Manufacturer name	Bboxx Ltd.
Product name	Flexx40
Product model / ID number	PW00450201/PW00480101CU
Contact information	c.baker-brian@bboxx.com
Website	www.bboxx.com
Dimensions (entire product in package)	34.5 x 29 x 10 cm
Mass	2850 g

SSS INFORMATION	
Specs sheet expiration date	September 30 2026
Revision	2024.02