

Flexx12

PW00380101
Bboxx Ltd.

Verify online:

<https://data.verasol.org/products/sek/bb-flexx12>

Valid until: November 30, 2025

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the Requirements in IEC TS 62257-9-8:2020 for Size A kits



Mobile charging

PAYG

Pay-As-You-Go option available

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects.

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
yes	included	Main lighting unit	1 light point on high with 200 lumens and 1.9 W power	6.6 hours	3.2 hours
yes	included	Radio	Radio integrated into main unit with a power consumption of 2.4 W while in use	5.4 hours	2.4 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	12 full charge(s)	0.8 full charge(s)

Available daily electrical energy ^c (Wh/day)	12
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Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	6.7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1340

^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)	CR ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Flexx12	1	3	High	200	120	81	6300	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		
1	USB 2.0 type A  Mobile phones can be charged. Adapters are included.	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests, Met IP4X	
Level of water protection	Main Unit	Has protection from frequent rain; met IPX4
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	4.3 watts	
<i>PV maximum power is measured at the end of the PV module cable in accordance with IEC TS 62257-9-5.</i>		
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	
Battery package type	26650	
Battery capacity	4.02 Ah	
Battery nominal voltage	3.2 V	
Battery status/ other indicator lights	Five indicators showing PAYG status, charging status, battery capacity status and load status.	
PRODUCT DETAILS		
Manufacturer name	Bboxx Ltd.	
Product name	Flexx12	
Product model / ID number	PW00380101	
Contact information	c.baker-brian@bboxx.com	
Website	www.bboxx.com	
Dimensions (entire product in package)	25 x 18.5 x 7 cm	
Mass	981 g	
SSS INFORMATION		
Specs sheet expiration date	November 30, 2025	
Revision	2023.11	