

# Flexx140-80W Kit 02

--  
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-flx140-80W>

Valid until: December 31, 2025



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



Mobile charging



Pay-As-You-Go option available

5

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

2-year warranty that covers manufacturing defects of the control unit, PV module, and lights. Bboxx will repair by replacing a component or replacing the whole unit.

## PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
				Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	4 Bulbs totalling 720 lumens and 5.2 W of power, and 1 tubelight totalling 230 lumens 1.6 W of power	20 hours	3.6 hours
yes	included	24" TV	24" diagonal television (9.6 W power consumption while in use)	22 hours	2 hours
yes	included	Torch	Torch (Li-ion battery: 2.5 Ah)	80 hours	4.5 hours
yes	included	Radio	Portable radio (Li-ion battery: 2.4 Ah, 3.7 V) with a power consumption of 0.72 W	160 hours	3.4 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery) with a power consumption of 5 W while in use	21 full charge(s)	1.1 full charge(s)
no	not included	16" Stand fan	16" Standing fan (9 W power)	23 hours	5.1 hours

Available daily electrical energy <sup>c</sup> (Wh/day)	200
---	-----

Performance measure	Brightness setting: One tubelight on High and 4 dimmable lights on high
Lighting full battery run time <sup>d</sup> for main unit (hours)	20
Lighting full battery run time of the torch powered by torch battery (hours)	70
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	19900

<sup>a</sup> 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.

<sup>d</sup> 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>
1.5 W Tubelight	1	3	High	230	150	81	6500	Wide	100%
1.3 W Dimmable bulb	4	3	High	180	130	82	6000	Wide	99%
Torch	1	3	High	180	130	83	6200	Wide	98%

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

<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

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

SPECIAL FEATURES					
PAYG		Pay-As-You-Go enabled			
PORTS					
2	USB 2.0 type A		Mobile phones and radios can be charged. Adapters are included.		
4	Barrel jack		12 V ports available to charge devices and power appliances and 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			
	Tubelight	Water ingress protection not tested, meant for indoor use only.			
	Torch	Has protection from occasional rain; met with appropriate warning label			
	Radio	Water ingress protection not tested, meant for indoor use only.			
SOLAR DETAILS					
PV module type	Polycrystalline silicon				
PV maximum power	76 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				
Specific Li-ion battery chemistry	lithium iron phosphate				
Battery package type	8x 32700				
Battery capacity	11 Ah				
Battery nominal voltage	12.8 V				
Battery status/ other indicator lights	1 led light that indicates battery capacity				
PRODUCT DETAILS					
Manufacturer name	Bboxx Ltd.				
Product name	Flexx140-80W Kit 02				
Product model / ID number	--				
Contact information	c.baker-brian@bboxx.com				
Website	<a href="https://www.bboxx.com/">https://www.bboxx.com/</a>				
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more information.				
Mass	n/a				
SSS INFORMATION					
Specs sheet expiration date	December 31, 2025				
Revision	2025.11				