

Bright Home 800 TV

BRIGHT Products AS

Verify online:

<https://data.verasol.org/products/sek/bp-home800>

Valid until: December 31, 2021

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



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

6

Light point(s)



Plug-and-play



WARRANTY INFORMATION

Two-year warranty covering manufacturing defects in the system.

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	3 fixed focused lamps + 2 tubelight light points on (High Mode) totaling 1690 lumens and 13 W power	5.8 hours	4.1 hours
yes	included	Bright Start +	28 lumens portable lantern, (LiFePO4 battery: 0.44 Ah, 3.2 V)	170 hours	5.4 hours
yes	included	Television	24" diagonal (11 W power consumption while in-use)	10 hours	2.4 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	13 full charge(s)	1.4 full charge(s)

Available daily electrical energy ^c (Wh/day)	94
---	----

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	5.8
Lighting full battery run time of the Start+ lamp powered by Start+ lamp battery (hours)	4.6
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	10100

^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
Fixed focused lamp	3	3	High Mode	230	120	84	5200	Wide	100%
Tubelight	2	2	High Mode	500	130	82	5200	Wide	97%
Bright Start +	1	3	High Mode	28	92	85	5000	Wide	100%

^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

PORTS		
2	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are included.
3	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.
	Fixed-focus lamp	Water ingress protection not tested, meant for indoor use only.
	Bright Start+	Has protection from permanent outdoor exposure, met IP64
	Television	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		38 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		26650
Battery capacity		6.8 Ah
Battery nominal voltage		12.8 V
Battery status indication		Two indicators with one switch for controlling the system on/off, four indicators show different battery level, nine indicators form a flower shape show different charging rate.
MARKS AND CERTIFICATIONS		
Safety certification		RoHS 2011/65/EU and (EU) 2015/863; EN IEC 55015:2019, EN 61547:2009
Other certification		CE 2014/30/EU
PRODUCT DETAILS		
Manufacturer name		BRIGHT Products AS
Product name		Bright Home 800 TV
Product model / ID number		Home 800 TV
Contact information		line@bright-products.com
Website		www.bright-products.com
Dimensions (entire product in package)		87 x 43 x 15 cm
Mass		11000 g
SSS INFORMATION		
Specs sheet expiration date		December 31, 2021
Quality standards framework version		2021
Revision		2021.04