

# Bright Future 200 W SHS 32" TV

Engie Mobisol GmbH

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

<https://data.verasol.org/products/sek/mb-bf200>

Valid until: November 30, 2020



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

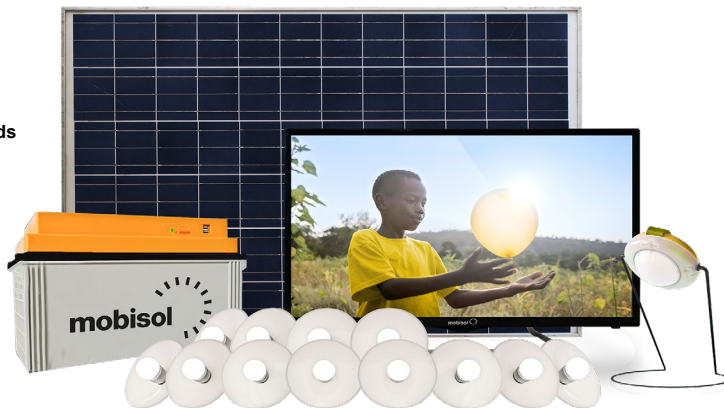
Pay-As-You-Go option available

13

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 4-year warranty for the PV module and battery, 3-year warranty for the light points and cables and extension packs, 2-year warranty for the TV and parts sold with the kit, and 1-year warranty for the Pico 50 lamp covering manufacturing defects in the system.

## PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)		
		Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
included in kit	Main lighting unit		12 light points on (On) totaling x 4320 lumens and 34.8 W power	17 hours	12.7 hours
	Pico 50 Lamp		Li-ion battery: 610 mAh, 3.3 V	790 hours	12.8 hours
	Television		32" diagonal (21 W power consumption while in-use)	30 hours	6.4 hours
sold separately	Mobile phone		3.7 Wh battery	90 full charge(s)	--
	Smart phone		5.7 Wh battery	57 full charge(s)	3.2 full charge(s)
	Radio		portable radio Li-ion battery: 1000 mAh, 3.7 V) with rated power consumption of 0.5 W.	670 hours	9.6 hours

Available daily electrical energy<sup>c</sup> (Wh/day) 600

### Performance measure

### Brightness setting: on

Lighting full battery run time<sup>d</sup> for main unit (hours)

17

Lighting full battery run time of the Solar Lantern powered by Solar Lantern battery (hours)

4.7

Total lighting service (lumen-hours/solar-day)

73700

(includes the both main lighting unit and any lights with internal batteries included with the product)

<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>
3.5 W Bulb	6	1	On	480	130	83	6400	Omnidirectional	99%
2 W Bulb	6	1	On	200	100	82	6600	Wide	100%
Solar Lantern	1	3	Turbo	45	130	71	4800	Wide	99%

<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.
3	Barrel jack	 Three 12 V barrel jack ports to power light points
2	Anderson Powerpole	 Two Mobisocket ports for powering 12 V appliances
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test (Solar Lantern only), Strain relief test, Physical ingress protection.
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	200 W PV module	Has protection from permanent outdoor exposure
	3.5 W bulb	Water ingress protection not tested, meant for indoor use only.
	2 W bulb	Water ingress protection not tested, meant for indoor use only.
	Sun King Pico 50 Solar Lantern	Has protection from occasional rain; met IPX1
	32" TV remote control	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		200 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Sealed lead-acid
Battery package type		40 cm x 27 cm x 17 cm
Battery capacity		130 Ah
Battery nominal voltage		12 V
Battery status indication		One indicator for network, four indicators for charging, battery state of charge, lock situation and alarm situation.
PRODUCT DETAILS		
Manufacturer name		Engie Mobisol GmbH
Product name		Bright Future 200 W SHS 32" TV
Product model / ID number		--
Contact information		communications@plugintheworld.com
Website		www.plugintheworld.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		67300 g
SSS INFORMATION		
Specs sheet expiration date		November 30, 2020
Quality standards framework version		2020
Revision		2020.08