

# Solar TV System 50 W-24"

Engie Mobisol EmbH

Verify online:

<https://data.verasol.org/products/sek/mb-ts50W24in>

Valid until: April 30, 2023

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

2

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

2 year warranty covering manufacturing defects in the system. No warranty for accessories such as phone charging cables.

## 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	24" Television	24" diagonal (13 W power consumption while in daytime mode)	13 hours	7.7 hours
yes	included	Fenix Light	2 light points on (High) totaling 420 lumens and 2.6 power	49 hours	4 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	19 full charge(s)	15 full charge(s)

Available daily electrical energy <sup>c</sup> (Wh/day)	165
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Performance measure	Brightness setting: High
Lighting full battery run time <sup>d</sup> for main unit (hours)	49
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	21100

<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>
Fenix light	2	3	High	210	160	84	5100	Wide	100%

<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 can be charged. Adapters are included.
2	Barrel jack	 Two barrel jacks for powering light points.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test (TV Remote), Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	24" TV (Main Unit)	Water ingress protection not tested, meant for indoor use only.
	50 W PV module	Has protection from permanent outdoor exposure
	Fenix Light	Water ingress protection not tested, meant for indoor use only.
	TV Remote	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		51 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
Battery package type		26650
Battery capacity		10 Ah
Battery nominal voltage		12.8 V
Battery status indication		One indicator for PV charging and one for remote control.
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2015
Safety certification		IEC 60065 (24" TV)
PRODUCT DETAILS		
Manufacturer name		Engie Mobisol EmbH
Product name		Solar TV System 50 W-24"
Contact information		china_opm.a2e@engie.com
Website		www.plugintheworld.com
Dimensions (entire product in package)		50 x 69 x 19.5 cm
Mass		9660 g
SSS INFORMATION		
Specs sheet expiration date		April 30, 2023
Quality standards framework version		2021
Revision		2021.04