

Solar TV System 50 W-24"

Engie Mobisol GmbH

Verify online:

<https://data.verasol.org/products/sek/mb-sts50W24in>

Valid until: April 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 for Size B Kits



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 ^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	Television	24" diagonal (13 W power consumption while in daytime mode)	13 hours	7 hours
yes	included	Main lighting unit	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)	4 full charge(s)

Available daily electrical energy ^c (Wh/day)	165
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Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	50
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	21100

^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
Curie light	2	3	High	210	160	84	5100	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

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.
2	Barrel jack	 12 V ports available for powering light points
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, 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.
	PV module	Has protection from permanent outdoor exposure
	Curie light	Water ingress protection not tested, meant for indoor use only.
	TV Remote	Water ingress protection not tested, meant for indoor use only.
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/ other indicator lights		One indicator for PV charging and one for remote control.
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)		69 x 51 x 20 cm
Mass		9350 g
SSS INFORMATION		
Specs sheet expiration date		April 30, 2025
Revision		2023.04