

WowSolar™ TV 32 G2 Solar Home System

WOWsolar TV 32 G2

Brand name: Amped Innovation PBC

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/ai-wstsv>

Valid until: April 30, 2025



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



Mobile charging

PAYG

Pay-As-You-Go option available

6

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects for the system and a 1-year warranty for the TV.

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	6 light points on high totaling 960 lumens and 6 W power	23 hours	5.3 hours
yes	included	Television	32" diagonal television (10 W power consumption while in use)	14 hours	2.7 hours
yes	not included	Radio	Portable radio (Li-ion battery: 2.1 Ah, 3.7 V), with a power consumption of 0.43 W while in use	261 hours	4 hours
yes	not included	Torch	87 lm torch (Li-ion battery: 2.1 Ah, 3.7 V)	57 hours	5.4 hours
no	not included	Smartphone	Smart phone (5.7 Wh battery)	18 hours	1.3 hours
yes	not included	16" fan	Standing fan (16" or smaller diameter, 10 W power)	16 hours	6.6 hours

Available daily electrical energy ^c (Wh/day)	150
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Performance measure	Brightness setting: Six round lamps on high
Lighting full battery run time ^d for main unit (hours)	23
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	21400

^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)	Power consumption (W)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Round Lamp	6	2	high	160	1	150	83	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.
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, Drop 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
	Round lamp	Water ingress protection not tested, meant for indoor use only.
	32" TV	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		50 watts
PV rated power		50 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		8x 32700
Battery capacity		12 Ah
Battery nominal voltage		12.8 V
Battery status/ other indicator lights		One indicator for battery level
PRODUCT DETAILS		
Company name		Amped Innovation PBC
Brand Name		Amped Innovation PBC
Product name		WowSolar™ TV 32 G2 Solar Home System
Product model / ID number		WOWsolar TV 32 G2
Contact information		info@ampedinnovation.com
Website		www.ampedinnovation.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		n/a
SSS INFORMATION		
Specs sheet expiration date		April 30, 2025
Revision		2024.07