

TV300-24 Solar Home System

AZ002754 (kit) comprising: AZ002940 (PV Module); AZ002439 (Control Unit); AZ003128 (LED Tube Light); AZ003081 (LED Light); AZ002738 (24" TV); AZ002370 (Torch); AZ002477 (Radio); AZ002199 (Phone Charging Cable); AZ000876 (Extension Cable)

Azuri Technologies, Ltd.

Verify online:

<https://data.verasol.org/products/sek/az-tv300>

Valid until: October 31, 2021

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

5

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects in the system, a 2-year warranty for the TV, and a 1-year warranty for the radio, torch, and phone charging cable.

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	4 light points on highest setting totaling 600 lumens and 4.3 W power	17 hours	7.8 hours
yes	included	Torch	1.9 Ah battery, 3.7 V nominal voltage, 79 lumens	82 hours	8.1 hours
yes	included	24" Television	24" diagonal (11.8 W power consumption while in-use)	11 hours	4 hours
yes	included	A5 Radio	Portable (1 Ah battery, 3.7 V nominal voltage), with a power consumption of 0.19 W while in-use	370 hours	6 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	16 full charge(s)	2 full charge(s)

Available daily electrical energy^e (Wh/day) 120

(Additional energy may be available for daytime use of appliances.)

Performance measure	Brightness setting: bright
Lighting full battery run time ^d for main unit (hours)	17
Lighting full battery run time of the torch powered by torch battery (hours)	79
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	10700

^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 ^g (lm/W)	CR ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED light	2	3	maximum	150	140	81	4100	Wide	99%
LED tubelight	2	3	maximum	280	120	83	4100	Wide	99%
Torch	1	2	high	79	80	73	6000	Narrow	98%

^g 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 and smart phones, torches, and radios can be charged
4	Barrel jack	 12 V lighting ports
2	3 pole barrel jack	12 V accessory port, can be used for powering TVs
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
	Torch	Has protection from frequent rain; met IPX3
	Radio	Has protection from occasional rain; met with appropriate warning label
	24" TV	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		54 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		22650 x 2P x 4S
Battery capacity		10 Ah
Battery nominal voltage		12.8 V
Battery status indication		Four indicators for function buttons, one indicator for credit and low battery status, one screen for credit, battery state of charge, PV charging intensity and protection status.
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2015 (Radio, Control unit, Lights, Torch, PV Module, TV); ISO 14001:2015 (Radio, Control Unit, PV Module, LED Tube Light, LED Light); ISO 45001:2015 (PV module)
PRODUCT DETAILS		
Manufacturer name		Azuri Technologies, Ltd.
Product name		TV300-24 Solar Home System
Product model / ID number		AZ002754 (kit) comprising: AZ002940 (PV Module); AZ002439 (Control Unit); AZ003128 (LED Tube Light); AZ003081 (LED Light); AZ002738 (24" TV); AZ002370 (Torch); AZ002477 (Radio); AZ002199 (Phone Charging Cable); AZ000876 (Extension Cable)
Contact information		info@azuri-technologies.com
Website		www.azuri-technologies.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		
SSS INFORMATION		
Specs sheet expiration date		October 31, 2021
Revision		2021.03