

80W TV400-24 Solar Home System

Azuri Technologies, Ltd.

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

Verify online:

www.lightingglobal.org/products/az-TV400-24

Valid until October 31, 2020



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go

5

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
	Appliance ^a	Description		
included in kit	Main Lighting on Brightest Setting	4 light points on highest setting totaling 850 lumens and 6.6 W power	25 hours	11 hours
	G3 Torch	2000 mAh, 100 lumens torch, 3.7 V nominal voltage	110 hours	11 hours
	24" TV	24" diagonal (11.8 W power consumption while in-use)	15 hours	5.3 hours
	A5 radio	Portable (1000 mAh battery, 3.7 V nominal voltage), with a power consumption of 0.26 W while in-use	500 hours	8.1 hours
sold separately	Smart phone	Smart phone (5.7 Wh battery)	21 full charge(s)	2.7 full charge(s)

Available daily electrical energy^c (Wh/day) 165

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

Performance measure

Brightness setting: brightest

Lighting full battery run time^d for main unit (hours)

25

Lighting full battery run time torch (hours)

110

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

20000

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

^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
G6 LED light	2	3	brightest	140	130	82	4100	Wide	96%
K1 tubelight	2			280		83			98%
G3 Torch	1	2	high	100	100	71	5800	Narrow	99%




^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**Pay-as-you-go (PAYG)****Keypad for entering PAYG authorisation code****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.
Level of water protection	Main Lighting 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	Polycrystalline silicon
PV maximum power	85 watts

BATTERY DETAILS

Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	22650 x 2P x 4S
Battery capacity	13.2 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); ISO 14001:2015 (Radio, Control Unit, PV Module)
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PRODUCT DETAILS

Manufacturer name	Azuri Technologies, Ltd.
Product name	80W TV400-24 Solar Home System
Product model / ID number	AZ002813 (kit) comprising: AZ002659 (PV Module); AZ002653 (Control Unit); AZ002421 (K1 tubelight); AZ002470 (G6 LED lamp); AZ002469 (24" TV); AZ002370 (Torch); AZ002477 (radio); AZ002199 (phone charging 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	Multiple packages. Contact manufacturer for more information.

SSS INFORMATION

Specs sheet expiration date	October 31, 2020
Quality standards framework version	2020
Revision	2020.05