

# Solar Home System

TV4L-Q22

Qotto SAS

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

Verify online:

[data.verasol.org/products/sek/qotto-TV4L](https://data.verasol.org/products/sek/qotto-TV4L)

Valid until: July 31, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Electrical connections require tools\*



\*Some terminals on this product are not plug-and-play. Lighting Global verification assesses the performance of the system, but cannot assess proper installation of the product.

## WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects for main unit, lights and cables, a 10-year warranty for the PV module, a 2-year warranty for the battery, and a 1-year warranty for the TV.

## PERFORMANCE DETAILS

			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>
	Appliance <sup>a</sup>	Description		
included in kit	Light point	4 light points on (On setting) totaling 1280 lumens and 12 W power	26 hours	9.1 hours
	Television	22" diagonal (15 W power consumption while in-use)	22 hours	4.6 hours
sold separately	Fan	Table fan (11 W power)	30 hours	11.6 hours
	Mobile phone	Basic phone (3.7 Wh battery)	54 full charge(s)	2.3 full charge(s)
	Radio	Portable (3.7 Wh battery), with a power consumption of 0.5 W while in-use	400 hours	7 hours

Available daily electrical energy<sup>c</sup> (Wh/day) 320

Performance measure	Brightness setting: on
Lighting full battery run time <sup>d</sup> for main unit (hours)	52
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	32600

<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>
Light Point	4	1	On	320	100	84	6700	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		
<b>PAYG</b>	★ Pay-As-You-Go enabled	
<b>TV</b>	★ TV includes a DTT and Satellite decoder.	
PORTS		
<b>9</b>	<b>USB 2.0 type A</b>  Mobile phones can be charged. Adapters are included.	
<b>2</b>	<b>Barrel jack</b>  12 V ports available to power light points and other appliances (TV and fan).	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Drop test, Strain relief test, physical ingress protection.	
Level of water protection	TV4L-Q22 kit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure.
	22" TV remote	Has protection from occasional rain; met IPX1
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	110 watts	
BATTERY DETAILS		
Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.	
Battery chemistry	Sealed lead-acid	
Battery package type	15 x 17 x 7.7 cm	
Battery capacity	54 Ah (three 18 Ah batteries, capacity measured at a 10 C rate); Each battery rated 20 Ah at a 20 C rate	
Battery nominal voltage	12 V	
Battery status indication	A LCD display screen shows battery level, state of charge and various functional statuses.	
MARKS AND CERTIFICATIONS		
Safety certification	Batteries UL 1989	
PRODUCT DETAILS		
Manufacturer name	Qotto SAS	
Product name	Solar Home System	
Product model / ID number	TV4L-Q22	
Contact information	contact@qotto.net	
Website	qotto.net	
Dimensions (entire product in package)	16 x 22 x 6.8 cm	
Mass	795 g	
SSS INFORMATION		
Specs sheet expiration date	July 31, 2022	
Quality standards framework version	2019	
Revision	2019.12	