


Solar Home System


TV24-3B-4L
Qotto SAS

Verify online:
<https://data.verasol.org/products/sek/qotto-TV4L>
Valid until: July 31, 2024


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



Pay-As-You-Go option available

4

Light point(s)



Electrical connections require tools*



*Some terminals on this product are not plug-and-play. VeraSol verification assesses the performance of the system, but cannot assess proper installation of the product. MC4 connections made in the field do not meet the requirements in IEC 62257-9-8 and are not VeraSol quality verified.

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 ² /day)		
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c	Featured Combination (Lights, TV and Phone charging)
yes	included	Lamps	4 light points on (On setting) totaling 1520 lumens and 10 W power	27 hours	9.3 hours	13 hours
yes	included	Television	24" diagonal (11 W power consumption while in-use)	26 hours	4.8 hours	8.3 hours
no	not included	Fan	Small standing fan less than 16" diameter (10 W power)	29 hours	12 hours	--
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	49 full charge(s)	2.4 full charge(s)	10 full charge(s)
no	not included	Radio	Portable (Li-Ion battery, 1 Ah, 3.7 V with a power consumption of 0.5 W while in-use)	360 hours	7.3 hours	--

Available daily electrical energy^c (Wh/day) 280



Performance measure	Brightness setting: on
Lighting full battery run time ^d for main unit (hours)	48
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	41000

^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
Light Point	4	1	On	380	150	81	6050	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
TV Input source		★	TV has 7 unique input sources
TV		★	TV includes a DTT and Satellite decoder.
PORTS			
10	USB 2.0 type A		Mobile phones can be charged. Adapters are included.
5	Barrel jack		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, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	TV4L-3B-4L kit		Water ingress protection not tested, meant for indoor use only.
	PV module		Has protection from permanent outdoor exposure
SOLAR DETAILS			
PV module type			Polycrystalline silicon
PV maximum power			100 watts
MAIN UNIT BATTERY DETAILS			
Battery replaceability			Easily replaceable with common tools.
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/ other indicator lights			A LCD display screen shows battery level, state of charge and various functional statuses.
PRODUCT DETAILS			
Manufacturer name			Qotto SAS
Product name			Solar Home System
Product model / ID number			TV24-3B-4L
Contact information			contact@qotto.net
Website			qotto.net
Dimensions (entire product in package)			Multiple packages. Contact manufacturer for more information.
Mass			n/a
SSS INFORMATION			
Specs sheet expiration date			July 31, 2024
Revision			2023.05