

VeraSol

Standardized Specifications Book

Manufacturer: Qotto SAS

Component Family Name: Qotto SHS Family

Date of Standardized Specifications Book Expiration: July 31, 2024

Verify Online: <https://data.verasol.org/products/sek/qotto-shsfamily>

Contact Information: contact@qotto.net

Website: <http://www.qotto.net/>



This VeraSol Standardized Specifications Book presents a **component-level Standardized Specifications Sheet** listing the available components in the product family by component type, each individual component's performance rating, and performance results for each component tested according to the Edition 4 of IEC 62257-9-5. Following the component-level Standardized Specifications Sheet is a **list of the systems** covered by this Specifications Book that use combinations of these components.

NOTICE: Systems or kits developed using components from the component family will each perform differently and have not all been evaluated on a system-level basis. All systems listed in this Specifications Book are regarded to have passed IEC TS 62257-9-8.

Quality Standards Framework Version: 2023

Revision: 2023.05

Component-Level Standardized Specifications Sheet

Qotto SAS

Qotto SHS Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
QOTTO 12V 20 Ah*	Sealed Lead-acid	12	20000	18000
Qotto Box Control Unit	batteries attach externally			

*Measured at a 10 C rate. The battery is rated 20 Ah at a 20 C rate. Up to four 20000 mAh batteries can be combined to increase the overall capacity.

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
100 W PV Module 100-36P	100	100
50 W PV Module 50-36P	50	54

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	on	on	on
Light Point	350	380	150

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
TV24	24" diagonal TV	12	11	n/a	n/a
TV32	32" diagonal TV	--	not tested	n/a	n/a
TV43	43" diagonal TV	30	19	n/a	n/a

*Light points and appliances may perform differently when used with different systems.

NOTICE: As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in Edition 4 of IEC 62257-9-5. However, based on the satisfactory performance of the tested components in the family, the components that were not tested are regarded to meet the requirements in IEC TS 62257-9-8:2020. In addition, all tested components passed an internal inspection, the full array of applicable QTM durability tests, as well as ingress protection testing (where applicable).

List of Covered Systems

Qotto SAS

Qotto SHS Family

Number of each component included in each system								
System Name	Light Point	50 W PV Module	100 W PV Module	Battery SLA 12V	Qotto Box Control Unit	TV24	TV32	TV43
Lighting Comfort 4L-1B	4	1	--	1	1	--	--	--
Entertainment Comfort TV24-2B-3L	3	--	1	2	1	1	--	--
Entertainment Premium TV24-3B-4L **	4	--	1	3	1	1	--	--
Privilège 32	4	--	1	3	1	--	1	--
Privilège 40	4	1	1	3	1	--	--	1

NOTICE:

Only the kits denoted with ** were tested as full systems according to Edition 4 of IEC 62257-9-5 and passed IEC 62257-9-8 standards. An Individual Standardized Specification Sheet (SSS) that reports system-level performance is available for these systems at VeraSol.org. Systems that were not tested, but that were developed using components from the component family will perform differently than the system(s) shown in the individual system-level SSS. All systems listed above are regarded to meet the requirements in IEC 62257-9-8.

Component and Installation Information

Some terminals on this product are not plug and play. Kits include various combinations of the following cables and connectors listed below. Installing and configuring the system requires tools to make electrical connections. 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 IEC62257-9-8.

Cable/Connector	Quantity
Cable 5521 Jack to Wire	1
1 gang switch	1-2
2 gang switch	1-3
Wago Connector double	2-4
Wago Connector triple	4-8
MC4 Connector pair	1
Lamp Holder	4-8
Battery Cables (1 x 2.5 mm ring tongue terminals)	0-6
2 x 2.5 mm PV Cable	1
2 x 1.5 mm Appliance Cable	1
Multi USB charging cable	1

Unless otherwise noted, the following information applies to all listed systems and components:

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.

Available Daily Electrical Energy and Port Information

Qotto SAS

Qotto SHS Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
Lighting Comfort 4L-1B	150	yes
Entertainment Comfort TV24-2B-3L	280	yes
Entertainment Premium TV24-3B-4L**	280	yes
Privilège 32	280	yes
Privilège 40	520	yes

**Tested as full system. Individual SSS available on VeraSol website.

NOTICE:

The available daily electrical energy (Wh/day) is calculated for fully tested systems following the energy service calculations as described in IEC/TS 62257-9-5 Ed. 4. For products in a family that are not tested as a full system, estimations of available daily electrical energy (Wh/day) are calculated according to an alternative method using data from the test reports of fully-tested products and components.