

Lighting Global Standardized Specifications Book

Manufacturer: Qotto SAS

Component Family Name: Qotto SHS Family

**Date of Standardized
Specifications Book Expiration:** March 31, 2023

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

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This Lighting Global 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 the applicable Lighting Global Quality Standards.

Quality Standards Framework Version: 2019

Revision: 2022.09

Component-Level Standardized Specifications Sheet

Qotto SAS

Qotto SHS Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating at 20 C Rate (mAh)	Measured Battery Capacity at 10 C Rate (mAh)
QOTTO 12V 20 Ah*	Sealed lead-acid	12	20000	18000
Qotto Box Control Unit	batteries attach externally			

*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)
100W PV Module 100-36P	100	110
50W PV Module 50-36P	50	50

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
Light Point	300	320	100

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
22" TV	12 V, 22" TV with barrel plug	19	15	--	--
32" TV	12 V, 32" TV with barrel plug	25	21	--	--

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 have passed the applicable Lighting Global Quality Standards. 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).

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

List of Covered Systems

Qotto SAS

Qotto SHS Family

Number of each component included in each system

System Name	3 W Light Point	100 W PV Module	50 W PV Module	Battery SLA QOTTO 12V 20 Ah	Qotto Box Control Unit	22" TV	32" TV
Light 4L	4		1	1	1		
Light 6L	6	1		2	1		
Light 8L	8	1		2	1		
TV4L-Q22**	4	1		3	1	1	
TV6L-Q22	6	1	1	3	1	1	
TV8L-Q22	8	2		4	1	1	
TV4L-Q32	4	1		3	1		1
TV6L-Q32	6	1	1	3	1		1
TV8L-Q32	8	2		4	1		1

**Tested as full systems. Individual SSS available on Lighting Global website.

NOTICE:

Only the TV4L-Q22 was fully tested as a system according to Edition 4 of IEC 62257-9-5. An individual Standardized Specifications Sheet (SSS) that reports system-level performance is available for the TV4L-Q22 at www.lightingglobal.org/products. 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 have passed the applicable Lighting Global Quality Standards.

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. Lighting Global verification assesses the performance of the system, but cannot assess proper installation of the

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 (1X2.5mm ring tongue terminals)	0-6
2x2.5 mm PV Cable	1
2x1.5 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.

List of Covered Systems

Qotto SAS

Qotto SHS Family

System Name	Number of each component included in each system																		
	3W Lamps with Lamp Holders	100W PV Module	50W PV Module	Battery SLA QOTTO 12V 20 Ah	Qotto Box Control Unit	22" TV	32" TV	Cable 5521 Jack to Wire	1 gang switch	2 gang switch	Wago connector double	Wago connector triple	MC4 connector pair	Battery Cables (1X2.5mm ring tongue terminals)	6-meter 2x2.5mm PV cable	25-meter 2x1.5mm cable	30-meter 2x1.5mm cable	35-meter 2x1.5mm cable	Multi USB charging cable
Light 4L	4		1	1	1		1	2	1	2	4	1		1	1				1
Light 6L	6	1		2	1		1	2	2	2	6	1	2	1		1			1
Light 8L	8	1		2	1		1	2	2	2	8	1	2	1				1	1
TV4L-Q22**	4	1		3	1	1	1	1	2	2	4	1	4	1	1				1
TV6L-Q22	6	1	1	3	1	1	1	2	2	2	6	1	4	1		1			1
TV8L-Q22	8	2		4	1	1	1	2	3	4	8	1	6	1				1	1
TV4L-Q32	4	1		3	1		1	1	2	2	4	1	4	1	1				1
TV6L-Q32	6	1	1	4	1		1	2	2	2	6	1	6	1		1			1
TV8L-Q32	8	2		4	1		1	2	3	4	8	1	6	1				1	1
TV4L-Q40	4	1	1	4	1		1	1	2	2	4	1	6	1	1				1
TV6L-Q40	6	1	1	4	1		1	2	2	2	6	1	6	1		1			1
TV8L-Q40	8	2		4	1		1	2	3	4	8	1	6	1				1	1

**Tested as full systems. Individual SSS available on Lighting Global website.

NOTICE:

Only the TV4L-Q22 was fully tested as a system according to Edition 4 of IEC 62257-9-5. An individual Standardized Specifications Sheet (SSS) that reports system-level performance is available for the TV4L-Q22 at www.lightingglobal.org/products. 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 have passed the applicable Lighting Global Quality Standards.

Component and Installation Information

Components are not plug and play. Installation requires tools to make electrical connections.

Lighting Global verification assesses the performance of the system, but cannot assess proper installation of the product.

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.