VeraSol
Standardized Specifications Book

Manufacturer: Azuri Technologies, Ltd.

Component Family Name: Azuri TVX Family

Date of Standardized Specifications Book Expiration: October 31, 2021

Verify Online: Verify here: https://data.verasol.org/products/sek/az-tvxfamily

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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 the applicable Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8*.

Quality Standards Framework Version: 2021
Revision: 2021.07

Component-Level Standardized Specifications Sheet
Azuri Technologies, Ltd.
Azuri TVX Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
EV400 Control Unit (AZ002653)	Lithium Iron Phosphate	12.8	13.2	13
EV300 Control Unit (AZ002439)	Lithium Iron Phosphate	12.8	9.9	10
Rechargeable Torch (AZ002370)	Lithium Ion	3.7 V	2	1.9

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
80W Mono-Si (AZ002659)	80	84
58W Mono-Si (AZ002940)	50	54

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	Brightest	Brightest	Brightest
LED Light (AZ003081)	150	150	140
LED Tube Light (AZ003128)	280	280	120
Rechargeable Torch (AZ002370)	90	79	80

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
32"LED TV (AZ002388)	32" diagonal	14	13.8	--	--
24"LED TV (AZ002738)	24" diagonal	12	11.8	--	--
Rechargeable Radio (AZ002477)	Portable with 3.7 V nominal voltage	0.25	0.19	1	1

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 or the requirements in IEC 62257-9-8. 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
Azuri Technologies, Ltd.
Azuri TVX Family

System Name	Number of each component included in each system									
	LED Light (AZ003081)	LED Tube Light (AZ003128)	80W Mono-Si PV Module (AZ002659)	58W Mono-Si (AZ002940)	EV400 Control Unit (AZ002653)	EV300 Control Unit (AZ002439)	32"LED TV (AZ002388)	24"LED TV (AZ002738)	Rechargeable Radio (AZ002477)	Rechargeable Torch (AZ002370)
TV400-32** (AZ002766)	2	2	1		1		1		1	1
TV400-24 (AZ002813)	2	2	1		1			1	1	1
TV300-32 (AZ002754)	2	2		1		1	1		1	1
TV300-24** (AZ002918)	2	2		1		1		1	1	1
TV300X-24 (AZ003165)		1		1		1		1		

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

NOTICE:

Only the TV400-32 and TV300-24 were fully tested as systems according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the TV400-32, the TV300-24, and the at https.data.verasol.org/products/sek/ 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 or the requirements in IEC 62257-9-8.

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

Warranty Information

A 3-year warranty covering manufacturing defects in the system (main units, PV modules, LED Lights), a 2-year warranty for the TV, and a 1-year warranty for the radio, torch, and phone charging cable.

Marks and Certifications

Factory certification	ISO 9001:2015 (Radio, Control unit, Lights, Torch, PV Module, TV); ISO 14001:2015 (Radio, Control Unit, PV Module, LED Tube Light, LED Light); ISO 45001:2015 (PV module)

Available Daily Electrical Energy and Port Information
Azuri Technologies, Ltd.
Azuri TVX Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
TV400-32** AZ002766	190	yes
TV400-24 AZ002813	--	yes
TV300-32 AZ002754	--	yes
TV300-24** AZ002918	120	yes
TV300X-24 AZ003615	--	yes

**Tested as full systems. 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. Estimating Wh/day values requires making assumptions about system efficiencies, power consumption, and user behavior. As with any calculation based on multiple assumptions, there is some degree of error in the Wh/day estimate, which may be greater or less than the actual value for a given product.