

VeraSol Standardized Specifications Book

Manufacturer: Amped Innovation PBC

Component Family Name: WOWSolar Family

Date of Standardized Specifications Book Expiration: March 31, 2023

Verify Online: <https://data.verasol.org/products/sek/ai-family>

Contact Information: info@ampedinnovation.com

Website: www.ampedinnovation.com



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.

Quality Standards Framework Version: 2020

Revision: 2021.04

Component-Level Standardized Specifications Sheet

Amped Innovation PBC

WOWSolar Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
1.5 Ah battery	Lithium iron phosphate	12.8	1.5	1.5
6 Ah external battery	Lithium iron phosphate	6.4	6	5.9

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
6 W PV module	6	6.1
10 W PV module	10	not tested
15 W PV module	15	not tested
40 W PV module	40	35

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Low	High	Low	High	Low
Round Lamp	140	50	120	50	110	120

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
WOW22	WOWsolar TV 22"	10	9.2	--	--
WOW32	WOWsolar TV 32"	13	10	--	--

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

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WOWSolar Family

System Name	Number of each component included in each system									
	Round Lamp	Control Unit with 1.5 Ah battery	Control Unit with 2 x 1.5 Ah battery	6 Ah external battery	6 W PV module	10 W PV module	15 W PV module	40 W PV module	WOW 22 TV	WOW 32 TV
WOWSolar 60	2-3	1			1					
WOWSolar 100	2-4	1				1				
WOWSolar 400	3-5		1				1			
WOWSolar TV**	4	1		1				1	1	
WOWSolar TV22100	4-6	1		1				1	1	
WOWSolar TV32100	4-6	1		1				1		1
WOWSolar TV32120	4-6		1	1				1		1
WOWSolar 22 Upgrade	4-6			1				1	1	
WOWSolar 32 Upgrade	4-6			1				1		1

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

Only the WOWSolar TV was fully tested as a system according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the WOWSolar TV at <https://data.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 have passed the applicable Lighting Global Quality Standards.

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

Warranty Information

2-year warranty on the system and a 1-year warranty on accessories. The WowSolar 400 and WowSolar 100 sold in Rwanda has a 3-year warranty on the system and 1-year warranty on accessories.

Available Daily Electrical Energy

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WOWSolar Family

System Name	Available Daily Electrical Energy (Wh/day)
WOWSolar 60	18
WOWSolar 100	18
WOWSolar 400	37
WOWSolar TV** (22" TV)	110
WOWSolar TV22100	110
WOWSolar TV32120	120

**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. 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.