

# VeraSol

## Standardized Specifications Book

**Manufacturer:** Amped Innovation PBC

**Component Family Name:** WOWSolar Family

**Date of Standardized Specifications Book Expiration:** April 30, 2024

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

**Contact Information:** [info@ampedinnovation.com](mailto:info@ampedinnovation.com)

**Website:** [www.ampedinnovation.com](http://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 IEC TS 62257-9-8.

**Quality Standards Framework Version:** 2021

**Revision:** 2023.12

# Component-Level Standardized Specifications Sheet

Amped Innovation PBC

WOWSolar Family

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
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 (mAh)	Measured Battery Capacity (mAh)
WOW22	WOWsolar TV 22"	10	9.2	--	--
WOW24	WOWsolar TV 24"	9.4	8.3	--	--
WOW32	WOWsolar TV 32"	13	10	--	--

\*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 have passed 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

Amped Innovation PBC

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 24 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
WOWSolar TV24120	4-6	--	1	1	--	--	--	1	--	1	--
A24-24-120-1	4-6	--	1	1	--	--	--	1	--	1	--

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

### 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 have passed IEC 62257-9-8.

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 and Port Information

Amped Innovation PBC

WOWSolar Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
WOWSolar 60	18	yes
WOWSolar 100	18	yes
WOWSolar 400	37	yes
WOWSolar TV** (22" TV)**	110	yes
WOWSolar TV22100	110	yes
WOWSolar TV32120	120	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.