

# Lighting Global Standardized Specifications Book

**Manufacturer:** Mobisol

**Component Family Name:** Mobisol Family SHS

**Date of Standardized  
Specifications Book Expiration:** January 31, 2020

**Verify Online:** [www.lightingglobal.org/products/mb-shs](http://www.lightingglobal.org/products/mb-shs)

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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 latest version of the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocol for Solar Home System Kits, as applicable. 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:** 2017

**Revision:** 2018.01

# Component-Level Standardized Specifications Sheet

Mobisol

Mobisol Family SHS Family

## Battery / Control Box

Name / Model Number	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
50 Ah Solar Battery and Controller*	50000	54000
100 Ah Solar Battery and Controller*	100000	96000

\*The Mobisol systems are pay-as-you-go (PAYG) enabled.

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
80 Wp Solar Panel	80	79
100 Wp Solar Panel	100	98
120 Wp Solar Panel	120	--
200 Wp Solar Panel	200	200

## Light Sources

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
3.5 W bulb	350	474	137
2 W bulb	200	200	102
<b>Portable Lamps</b>	<b>High</b>	<b>High</b>	<b>High</b>
Sun King Pico 50 Portable Lamp	Not stated	45	132

## Appliances

Name / Model Number	Description	Rated Power (W)	Measured Power (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Mobisol Radio	portable radio with internal battery charges via USB	--	--	850	--
Mobisol Television - 19"	19" DC flat screen	12	10	--	--
Mobisol Television - 24"	24" DC flat screen	15	--	--	--
Mobisol Television - 32"	32" DC flat screen	24	21	--	--
Mobisol Television - 43"	43" DC flat screen	29	--	--	--

**NOTICE:** As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocols for Solar Home System Kits. 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).

# List of Covered Systems

Mobisol

Mobisol Family SHS Family

System Name	Number of each component included in each system												
	2 W or 3.5 W Bulbs	Sun King Pico 50 Portable Lamp	Portable Radio	19" TV	24" TV	32" TV	43" TV	50 Ah Battery	100 Ah Battery	80 Wp Solar Panel	100 Wp Solar Panel	120 Wp Solar Panel	200 Wp Solar Panel
80 W Mobisol SHS Basic	3 to 12	1	0 to 1					1		1			
80 W Mobisol Family SHS - 19" TV	4 to 12	1	1	1				1		1			
100 W Mobisol SHS Basic	3 to 12	1	0 to 1					1			1		
100 W Mobisol Family SHS - 24" TV	4 to 12	1	1		1			1			1		
120 W Mobisol SHS Basic	3 to 12		0 to 1					1	1			1	
120 W Mobisol Family SHS - 32" TV	4 to 12		1			1		1				1	
200 W Mobisol SHS Basic	3 to 12		0 to 1						1				1
200 W Mobisol Family SHS - 43" TV	4 to 12		1				1		1				1
200 W Bright Future SHS - 32" TV*	12		0			1			1				1
200 W Bright Future SHS - 43" TV	12	1	1				1		1				1

\*Tested as a full system. Individual SSS available on Lighting Global website.

## NOTICE:

Only the Mobisol Bright Future SHS - 32" TV was fully tested as systems according to the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocol for Solar Home System Kits, as applicable. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the Mobisol Bright Future SHS - 32" TV at [www.lightingglobal.org/products](http://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.

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

## Warranty Information

A warranty covering manufacturing defects for 3 years on PV panel, solar battery, Mobisol solar controller, Mobisol software, switches, cables and lights and 2 years on DC TV and antenna.

## Marks and Certifications

Factory certification	ISO 9001:2008
Other certification	TVs tested in accordance with IEC 60065, PV panels tested in accordance with IEC 61215