VeraSol
Standardized Specifications Book

Manufacturer: Shenzhen LEMI

Component Family Name: Magic Solar Family

Date of Standardized Specifications Book Expiration: April 30 2024

Verify Online: https://data.verasol.org/products/sek/lm-msp15

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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 requirements in IEC 62257-9-8.

Revision: 2022.04

Component-Level Standardized Specifications Sheet
Shenzhen LEMI
Magic Solar Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
12 Ah battery	Lithium iron phosphate	6.4	12	12
6 Ah battery	Lithium iron phosphate	6.4	6	6.5

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
15W PV	15	14
10W PV	10	9.6

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	On	High	On	High	On	High
LED bulb	200	--	230	--	120	--
Integrated light	--	60	--	76	--	54

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 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
Shenzhen LEMI
Magic Solar Family

System Name	Number of each component included in each system				
	LED bulb	15W PV	10W PV	12Ah battery	6Ah battery
Magic Solar Player/LM-MSP15**	3	1	--	1	--
Magic Solar Player/LM-MSP10	3	--	1	--	1

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

NOTICE:

Only the LM-MSP15 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 LM-MSP15 at
https.data.verasol.org/products/sek/lm-mspfamily
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 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

Available Daily Electrical Energy and Port Information

Shenzhen LEMI

Magic Solar Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
Magic Solar Player/LM-MSP15**	33	yes
Magic Solar Player/LM-MSP10	26	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.