

VeraSol

Standardized Specifications Book

Company Name: Shenzhen LEMI Technology Development Co., Ltd.

Brand Name Shenzhen LEMI

Component Family Name: SHS Family

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

Contact Information: info@lemi88.com

Website: <http://www.lemi.com.cn/>



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: 2024

Revision: 2024.6

Component-Level Standardized Specifications Sheet

Shenzhen LEMI Technology Development Co., Ltd.

SHS Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
4 Ah battery	Lithium ion	11.1	4	4.1
6 Ah battery	Lithium ion	11.1	6	5.5
7.5 Ah battery	Lithium ion	11.1	7.5	not tested
14 Ah battery	Lithium ion	11.1	14	15
18 Ah battery	Lithium ion	11.1	18	not tested
24 Ah battery	Lithium ion	11.1	24	not tested
28 Ah battery	Lithium ion	11.1	28	30
36 Ah battery	Lithium ion	11.1	36	39
48 Ah battery	Lithium ion	11.1	48	50

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
10 W PV module (poly-Si)	10	9.5
10 W PV module (mono-Si)	10	9.4
15 W PV module (poly-Si)	15	14
15 W PV module (mono-Si)	15	14
20 W PV module (poly-Si)	20	not tested
20 W PV module (mono-Si)	20	not tested
30 W PV module (poly-Si)	30	28
30 W PV module (mono-Si)	30	28
45 W PV module (poly-Si)	45	not tested
45 W PV module (mono-Si)	45	not tested
50 W PV module (poly-Si)	50	44
50 W PV module (mono-Si)	50	47
60 W PV module (poly-Si)	60	not tested
60 W PV module (mono-Si)	60	not tested
80 W PV module (poly-Si)	80	not tested
80 W PV module (mono-Si)	80	not tested
100 W PV module (poly-Si)	100	96
100 W PV module (mono-Si)	100	92

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
2 W bulb	190	210	110
3 W bulb	280	280	100
5 W bulb	500	510	110

*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

Shenzhen LEMI Technology Development Co., Ltd.

SHS Family

System Name	Number of each component included in each system																			
	2 W bulb	3 W bulb	5 W bulb	4 Ah battery	6 Ah battery	7.5 Ah battery	14 Ah battery	18 Ah battery	24 Ah battery	28 Ah battery	36 Ah battery	48 Ah battery	10 W PV module (poly-Si)	10 W PV module (mono-Si)	15 W PV module (poly-Si)	15 W PV module (mono-Si)	20 W PV module (poly-Si)	20 W PV module (mono-Si)	30 W PV module (poly-Si)	30 W PV module (mono-Si)
LM-LI010	3	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
LM-LI015 **	3	--	--	--	1	--	--	--	--	--	--	--	--	--	0-1	0-1	--	--	--	--
LM-LI020	3	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	0-1	0-1	--	--
LM-LI030	--	3	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	0-1	0-1	--
LM-LI045	--	3	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	0-1	0-1
LM-LI060	--	3	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
LM-LI080	--	--	4	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
LM-LI100	--	--	4	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
LM-SHS-050***	--	3	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
LM-SHSP100****	--	--	4	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--

**Tested as full systems. Individual SSS available on VeraSol website.
***Kit has RFID PAYG feature
****Kit has Keypad PAYG feature

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

A 3-year warranty that covers manufacturing defects in the system.

Available Daily Electrical Energy and Port Information

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SHS Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
LM-LI010	29	yes
LM-LI015**	47	yes
LM-LI020	62	yes
LM-LI030	93	yes
LM-LI045	120	yes
LM-LI060	170	yes
LM-LI080	220	yes
LM-LI100	260	yes
LM-SHS-050***	120	yes
LM-SHSP100****	260	yes

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

***Kit has RFID PAYG feature

****Kit has Keypad PAYG feature

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.