

VeraSol

Standardized Specifications Book

Manufacturer: Shenzhen LEMI Technology Development Co., Ltd.

Component Family Name: SHS Family

Date of Standardized Specifications Book Expiration: July 31, 2023

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 the applicable Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8.

Quality Standards Framework Version: 2018

Revision: 2021.07

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 (Ah)	Measured Battery Capacity
LM-LI010	Li-Ion	11.1	4.0	4.1
LM-LI030	Li-Ion	11.1	14	15
6.0 Ah battery	Li-Ion	11.1	6.0	Not tested
7.5 Ah battery	Li-Ion	11.1	7.5	Not tested
10 Ah battery	Li-Ion	11.1	10	10
12 Ah battery	Li-Ion	11.1	12	Not tested
18 Ah battery	Li-Ion	11.1	18	Not tested
24 Ah battery	Li-Ion	11.1	24	Not tested
28 Ah battery	Li-Ion	11.1	28	30
30 Ah battery	Li-Ion	11.1	30	Not tested
36 Ah battery	Li-Ion	11.1	36	39
42 Ah battery	Li-Ion	11.1	42	45
48 Ah battery	Li-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	10	9.5
15 W PV	15	14
20 W PV	20	Not tested
30 W PV	32	28
45 W PV	45	Not tested
50 W PV	50	44
60 W PV	60	Not tested
80 W PV	80	Not tested
100 W PV	100	96

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	$\bar{\Phi}_0$	$\bar{\Phi}_0$	$\bar{\Phi}_0$
2 W lamp	200	210	110
3 W lamp	280	290	100
5 W lamp	--	510	110

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 or the 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 Technology Development Co., Ltd.

SHS Family

System Name	Number of each component included in each system																									
	Lamps			Li-ion batteries												PV modules										
	2 W	3 W	5 W	4.0 Ah	6.0 Ah	7.5 Ah	10 Ah	12 Ah	14 Ah	18 Ah	24 Ah	28 Ah	30 Ah	36 Ah	42 Ah	48 Ah	10 W	15 W	20 W	30 W	45 W	50 W	60 W	80 W	100 W	
LM-LI010 ^(note 1)	3			1													1									
LM-LI015	3				1													1								
LM-LI020 ^(note 1)	3					1													1							
LM-LI030 ^(note 1)		3								1											1					
LM-LI045		3									1											1				
LM-LI060		3										1											1			
LM-LI080			4												1									1		
LM-LI0100			4													1									1	
LM-SHS50 ^(note 2)		3										1										1				
LM-SHSP100 ^(note 3)			4													1									1	
LM-LI***-B**-2 (*) 3 (*) 5 (*)	Please refer to the descriptions below regarding this product code.																									
LM-SHS***-B**-2 (*) 3 (*) 5 (*) ^(note 2)	Please refer to the descriptions below regarding this product code.																									
LM-SHSP***-B**-2 (*) 3 (*) 5 (*) ^(note 3)	Please refer to the descriptions below regarding this product code.																									

Note 1: Tested as full systems. Individual SSS available on VeraSol website.

Note 2: These models are RFID pay-as-you-go enabled.

Note 3: These models are keypad pay-as-you-go enabled.

These SKUs are interpreted as follows:

Kits without PAYG are labeled LM-LI***-B**-2 (*) 3 (*) 5 (*).

Kits with RFID PAYG are labeled LM-SHS***-B**-2 (*) 3 (*) 5 (*).

Kits with keypad PAYG are labeled LM-SHSP***-B**-2 (*) 3 (*) 5 (*).

*** stands for the power of PV module, including 010 (10W), 015 (15W), 020 (20W), 030 (30W), 045 (45W), 050 (50W), 060 (60W), 080 (80W), 100 (100W);

** stands for the capacity of the Li-ion battery, including 4.0 (4Ah), 6.0 (6.0Ah), 7.5 (7.5Ah), 10 (10Ah), 12 (12Ah), 14 (14Ah), 18 (18Ah), 24 (24Ah), 28 (28Ah), 30 (30Ah), 36 (36Ah), 42 (42 Ah), 48 (48Ah);

2 stands for 2W LED bulb, 3 stands for 3W LED bulb, 5 stands for 5W LED bulb;

(*) stands for the quantity of LED bulbs.

NOTICE:

Only the 30 W Solar Home System (LM-LI030), LM-LI020 Solar Home System, and 10 W Solar Home System (LM-LI010) were fully tested as systems according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the 30 W Solar Home System (LM-LI030), the LM-LI020 Solar Home System, and the 10 W Solar Home System (LM-LI010) at <https://data.verasol.org/products/sek/>. 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 or the requirements in IEC 62257-9-8.

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

Warranty Information

Two year warranty on all kits and components