VeraSol Standardized Specifications Book

Manufacturer: Shenzhen LEMI Technology Development Co., Ltd.

Component Family Name: SHS LFP Family

Date of Standardized Specifications Book Expiration: March 31, 2022

Verify Online: https://data.verasol.org/products/sek/lemi-lfpfamily

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

Quality Standards Framework Version: 2020 Revision: 2021.05

Component-Level Standardized Specifications Sheet Shenzhen LEMI Technology Development Co., Ltd. SHS LFP Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)					
LM-LFP010	LiFePO4	12.8	4000	4000					
LM-LFP020	LiFePO4		8000	not tested					
LM-LFP030	LiFePO4	12.8	12000	12000					
LM-LFP045	LiFePO4		16000	not tested					
LM-LFP060	LiFePO4		20000	not tested					
LM-LFP080	LiFePO4	12.8	28000	29000					
LM-LFP100	LiFePO4	12.8	40000	42000					
LM-SHSLFP-50	LiFePO4	12.8	18000	19000					
Torch	Li-Ion	3.7	2000	1900					

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)						
10 W PV	10	10						
20 W PV	20	22						
30 W PV	30	32						
45 W PV	45	not tested						
60 W PV	60	not tested						
80 W PV	80	79						
100 W PV	100	98						
50 W PV	50	51						

Light Sources*

Name / Model Number	Luminous Flux Rating (Im)	Measured Luminous Flux (Im)	Measured Lamp Efficacy (Im/W)
	On	On	On
2 W Lamp	190	190	100
3 W Lamp	240	280	100
5 W Lamp	550	550	120
5 W Tubelight		630	130
Torch		56	87

Appliances*						
Name / Model Number	Description	Rated Power (W)	Measure d Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)	
Radio	Ah Li-lon (3.2 V)	3	0.3	2000	1900	
12" fan	12" table fan	12	12			
16" fan	16" pedestal fan	14	14			
19" TV	19" diagonal TV	15	12			
24" TV	24" diagonal TV	not te	ested			
32" TV	32" diagonal TV	26	20			

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 LFP Family

		Number of each component included in each system																									
System Name	2 W lamp	3 W lamp	5 W lamp	5 W tubelight	Torch	Main unit with 4Ah LiFePO4 battery	Main unit with 8Ah LiFePO4 battery	Main unit with 12Ah LiFePO4 battery	Main unit with 16Ah LiFePO4 battery	Main unit with 18Ah LiFePO4 battery	Main unit with 20Ah LiFePO4 battery	Main unit with 28Ah LiFePO4 battery	Main unit with 40Ah LiFePO4 battery	10 W PV Module	20 W PV Module	30 W PV Module	45 W PV Module	50 W PV Module	60 W PV Module	80 W PV Module	100 W PV Module	Radio	12" fan	16" fan	19' TV	24" TV	32" TV
LM-LFP010	3			0-1	0-1	1								1								0- 1	0- 1				
LM-LFP020	3			0-1	0-1		1								1							0- 1	0- 1				
LM-LFP020 (Kumbaya LB)*	3			0-1	0-1		1																ປ- 1				
LM-LFP030		3		0-1	0-1			1								1							- 0 -	0- 1	0- 1	0- 1	0- 1
LM-LFP045		3		0-1	0-1				1								1					-0-	- 0 -	- 0 -	U- 1	ປ- 1	0- 1
LM-LFP060		3		0-1	0-1						1								1			0 -	- 0 -	- 0 -		U- 1	0- 1
LM-LFP080**			4	0-1	0-1							1								1		- υ-		-		-	0- 1
LM-LFP100			4	0-1	0-1								1								1		1				
LM-SHSLFP-50†		3		0-1	0-1					1								1				0 -	0- 1	ປ- 1	-0-	0- 1	ປ- 1
LM-LFP***-B**-2(*) 3(*) 5(*)	Ple	ase	refe	er to	the o	desc	cript	ions	s bel	ow r	egar	ding	g thi	is pr	rodu	ict c	ode) .									
LM-SHSLFP-***-B**-2(*) 3(*) 5(*) * The LM-LFP020 is co-branded by	Please refer to the descriptions below regarding this product code. Please refer to the descriptions below regarding this product code.																										

* The LM-LFP020 is co-branded by Kumbaya LB and is equivalent to the Shenzhen LEMI version. For more details, visits the product's listing at: https://data.verasol.org/products/sek/km-ili20

**Tested as full systems. Individual SSS available on Lighting Global website.

†The LM-SHSLFP-50 is pay-as-you-go enabled

These SKUs are interpreted as follows.

Kits without PAYG are labled LM-LFP***-B**-2 (*) 3 (*) 5 (*),

and kits with PAYG are labeled LM-SHSLFP-***-B**-2 (*) 3 (*) 5 (*).

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

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

- B** stands for the capacity of the LiFePO4 battery, including 4.0 (4AH), 8.0 (8AH), 12 (12AH), 16 (16AH), 18 (18AH), 20 (20AH), 28 (28AH); 40 (40AH);

- 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 80 W Solar Home System (LM-LFP-080) was fully tested as a system according to Edition 4 of IEC 62257-9-5. A Standardized Specification Sheet (SSS) that reports system-level performance is available for the 80 W Solar Home System (LM-LFP-080) at https://data.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 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

Three year warranty on all system components. One year warranty on additional appliances (torch, radio, TV, fan).