

Lighting Global Standardized Specifications Book

Manufacturer: Omnivoltaic Energy Solutions Co., Ltd

Component Family Name: LUMNS Family

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

Website: www.omnivoltaic.com



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: 2018

Revision: 2018.08

Component-Level Standardized Specifications Sheet

Omnivoltaic Energy Solutions Co., Ltd

LUMNS Family

Battery / Control Box

Name / Model Number	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
2500 mAh battery	2600	2500
5000 mAh battery	5200	5000

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
4.9 W PV Module	4	4.9
5.7 W PV Module	6	5.7
12 W PV Module	12	12

Light Sources

Name / Model Number	Luminous Flux Rating (lm)			Measured Luminous Flux (lm)			Measured Lamp Efficacy (lm/W)		
	Super	Normal	Night	Super	Normal	Night	Super	Normal	Night
Main Lamp 200 lm	200	--	25	500	--	21	160	--	110
Main Lamp 300 lm	300	--	25	320	--	25	160	--	130
Main Lamp 500 lm	500	--	51	210	--	51	150	--	140
Secondary Lamp 100 lm	100	--	25	110	--	25	160	--	160
Torch	--	--	--	--	33	--	--	24	--

Appliances

Name / Model Number	Description	Rated Power (W)	Measured Power (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Solar Powered Radio (RD/SPRD-A)	portable radio with internal battery charges	3	0.63*	1000	750

*The power test is conducted according to IEC 62087-6:2015 (test procedure) and IEC 62087-1:2015 (test equipment requirement)

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

Omnivoltaic Energy Solutions Co., Ltd

LUMNS Family

System Name	Number of each component included in each system										
	Main Lamp 500 lm 5000 mAh battery	Main Lamp 320 lm 5000 mAh battery	Main Lamp 300 lm 2500 mAh battery	Main Lamp 200 lm 2500 mAh battery	Secondary Lamp 110 lm	4.9 W PV Module	5.7 W PV Module	12 W PV Module	Torch	Keypad	Radio
L500_KEYP**	1						1			1	
M600_KEYP**		1			3			1		1	
M400_KEYP				1	2		1			1	
L300_KEYP			1			1				1	
M600X_KEYP_RD		1			3			1	1	1	1
M400X_KEYP_RD				1	2		1		1	1	1
L500X_KEYP_RD	1						1		1	1	1
L300X_KEYP_RD			1			1			1	1	1
M600		1			3			1			
M400				1	2		1				
L500	1						1				
L300			1			1					

- X: is used to represent a torch is included in the kit, and could be blank
- KEYP is used to indicate the product is sold with a keypad for PAYG function and could be blank
- RD: is used to indicate a radio is included in the kit, and could be blank
- Number of secondary lamps can increase or decrease in different combinations.

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

NOTICE:

Only the L500 and the M600 were 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 L500 and the M600 at 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

Two year warranty on all kits and components. Radio has a 1 year warranty

Marks and Certifications

Factory certification

ISO 9001:2008