VeraSol Standardized Specifications Book

Manufacturer: Omnivoltaic Energy Solutions Co., Ltd

Component Family Name: LUMNS Family

Date of Standardized Specifications Book Expiration: May 31, 2023

Verify Online: https://data.verasol.org/products/sek/omni-lumnfamily

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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.

Quality Standards Framework Version: 2021 Revision: 2021.02

Component-Level Standardized Specifications Sheet Omnivoltaic Energy Solutions Co., Ltd LUMNS Family

Battery / Control Box

Name / Model Number	Battery Chemistry			_	Nominal Voltage (V)		Battery Capacity Rating (Ah)		Measured Battery Capacity (Ah)		
2500 mAh battery	Lithiur	m iron pho	osphate		7.2		2.	6	2.5		
5000 mAh battery	Lithiur	m iron pho	osphate	9	7.2		5.2		5.0		
Torch Battery	Lithiur	m iron pho	osphate	•	3.2		0.5		0.5		
PV Module											
Name / Model Number		Peak Pov	ver at S (W)	STC Ratir	ıg		Measured Peak Power at STC (W)				
4.9 W PV Module			4					2	4.9		
5.7 W PV Module			6				5.7				
12 W PV Module			12			12				2	
Light Sources*											
	Luminous Flux Rating (Im)			g Meas	Measured Lum Flux (Im					asured Lamp ficacy (Im/W)	
Name / Model Number	Super	Normal	Night	Super		Normal	Night	Super	Normal	Night	
Main Lamp 200 lm	200		25	210			21	160		110	
Main Lamp 300 lm	300		25	320			25	160		130	
Main Lamp 500 lm	500		51	500			51	150		140	
Secondary Lamp 100 lm	100		25	110			25	160		160	
Torch (front light)		33				39			120		
Appliances*											
Name / Model Number	Description		Rated Power (V	v)	Measured Power During Use (W)		Rated Battery Capacity (Ah)		Measured Battery Capacity (Ah)		
olar Powered Radio (RD/SPRD-/	charges via USB			3		0.39*		1		1	

*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 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. 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 Omnivoltaic Energy Solutions Co., Ltd LUMNS Family

System Name	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
L300			1			1					
L300_KEYP			1			1				1	
L300X_KEYP_RD			1			1			1	1	1
L500	1						1				
L500_KEYP**	1						1			1	
L500X_KEYP_RD	1						1		1	1	1
M300				1	1		1				
M300X				1	1		1		1		
M300_KEYP				1	1		1			1	
M300X_KEYP				1	1		1		1	1	
M300X_KEYP_RD				1	1		1		1	1	1
M400				1	2		1				
M400X				1	2		1		1		
M400_KEYP				1	2		1			1	
M400X_KEYP				1	2		1		1	1	
M400X_KEYP_RD				1	2		1		1	1	1
M500		1			2			1			
M500X		1			2			1	1		
M500_KEYP		1			2			1		1	
M500X_KEYP		1			2			1	1	1	
M500X_KEYP_RD		1			2			1	1	1	1
M600		1			3			1			
M600X		1			3			1	1		
M600_KEYP**		1			3			1		1	
M600X_KEYP		1			3			1	1	1	

M600X RD	1		3		1	1		1
M600X_KEYP_RD	1		3		1	1	1	1
M630		3			1			
M630X		3			1	1		
M630_KEYP		3			1		1	
M630X_KEYP		3			1	1	1	
M630X_KEYP_RD		3			1	1	1	1
M700	1		4		1			
M700X	1		4		1	1		
M700_KEYP	1		4		1		1	
M700X_KEYP	1		4		1	1	1	
M700X_KEYP_RD	1		4		1	1	1	1

Only the M600_KEYP was fully tested as a system according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the M600_KEYP 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.

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				

Available Daily Electrical Energy Omnivoltaic Energy Solutions Co., Ltd LUMNS Family

System Name	Available Daily Electrical Energy (Wh/day)
L500**	21
M600**	35

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

NOTICE:

I he 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.