

Lighting Global Standardized Specifications Book

Manufacturer: Omnivoltaic Energy Solutions Co., Ltd

Component Family Name: ovCamp

Date of Standardized Specifications Book Expiration: April 30, 2022

Verify Online: <http://www.lightingglobal.org/products/omni-ovCamp>

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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 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: 2020

Revision: 2020.04

Component-Level Standardized Specifications Sheet

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Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
CEHP-6AH	Lithium Iron Phosphate	12.8	6000	5960
3.2 Ah battery	Lithium Iron Phosphate	12.8	3200	3200
9.6 Ah battery	Lithium Iron Phosphate	12.8	9600	Not Tested
12.8 Ah battery	Lithium Iron Phosphate	12.8	13000	Not Tested
18 Ah battery	Lithium Iron Phosphate	12.8	18000	18000
Torch battery	Lithium Iron Phosphate	3.2	500	630

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
12 W Solar Panel	12	12
20 W Solar Panel	20	22
30 W Solar Panel	30	Not Tested
35 W Solar Panel	35	Not Tested
55 W Solar Panel	55	52
75 W Solar Panel	75	75

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
1 W bulb	100	120	110
2 W bulb	200	210	110
4 W bulb	390	410	100
Torch Side Light (High)	40	46	140
Torch Front Light	33	39	120

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Solar Powered Radio (RD/SPRD-A)	portable radio with internal battery charges via USB	3	0.39*	1000	970
24" TV	12 V Televison	10	10	--	--
32" TV	12 V Televison	15	10	--	--

*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

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System Name	Number of each component included in each system																	
	1 W Bulb	2 W Bulb	4 W Bulb	Torch	Radio	CEHP-6AH	3.2 Ah battery	9.6 Ah battery	12.8 Ah battery	18 Ah battery	12 W Solar Panel	20 W Solar Panel	30 W Solar Panel	35 W Solar Panel	55 W Solar Panel	75 W Solar Panel	24" TV	32" TV
HS2-72_LBxxxxxx*	--	--	--	1		1						1						
HS2-72_LB222222_RD_EX33_TC33	--	6	--	1	1	1						1						
HS-236_LB1122	2	2	--	1			1				1							
HS-236_LB1122_RD	2	2	--	1	1						1							
HS-236_LB1xxxxxx	--	--	--	1							1							
HS2-108_LBxxxxxx	--	--	--	1				1					1					
HS2-144_LB2244	--	2	2	1					1					1				
HS2-144_LBxxxxxx	--	--	--	1					1					1				
HS2-180_LBxxxxxx	--	--	--	1						1					1			
HS2-230_LB124_KEYP**	1	1	1	1						1						1		
HS2A-72_LBxxxxxx	--	--	--	--		1						1						
HS2A-108_LBxxxxxx	--	--	--	--				1					1					
HS2A-144_LBxxxxxx	--	--	--	--					1					1				
HS2A-180_LBxxxxxx	--	--	--	--						1					1			
HS2B-72_LBxxxxxx	--	--	--	1		1							1					
HS2B-108_LBxxxxxx	--	--	--	1				1						1				
HS2B-144_LBxxxxxx	--	--	--	1					1						1			
HS2B-144_LB222_TV24_SRF	--	3	--	1						1					1		1	
HS2B-144_LB2222_RD_TV24_SRF_EX3_TC3	--	4	--	1	1					1					1		1	
HS2B-144_LB2222_TV24_SRF_EX3_TC3	--	4	--	1						1					1		1	

HS2B-144_LB2222_TV24_EX3_TC3_DP15	--	4	--	1					1						1		1	
HS2B-180_LBxxxxxx	--	--	--	1						1							1	
HS2C-72_LBxxxxxx	--	--	--	--		1							1					
HS2C-72_LB224_RD	--	2	1	--	1	1							1					
HS2C-108_LBxxxxxx	--	--	--	--				1							1			
HS2C-144_LBxxxxxx	--	--	--	--					1							1		
HS2C-180_LBxxxxxx	--	--	--	--						1							1	
HS2C-180_LB222		3								1							1	
HS2D-72_LBxxxxxx	--	--	--	1		1									1			
HS2D-108_LBxxxxxx	--	--	--	1				1								1		
HS2D-108_LB222_TV24_SRF	--	3	--	1				1								1		1
HS2D-108_LB2222_RD_TV24_SRF_EX3_TC3	--	4	--	1	1			1								1		1
HS2D-108_LB2222_TV24_EX3_TC3_DP15	--	4	--	1				1								1		1
HS2D-108_LB2222_TV24_SRF_EX3_TC3_DP15	--	4	--	1				1								1		1
HS2D-144_LBxxxxxx	--	--	--	1					1								1	
HS2D-144_LB2224_EX3_TC3	--	3	1	1					1								1	
HS2D-144_LB222222_TV32_SRF_EX333_TC333	--	6	--	1					1								1	1
HS2D-144_LB222222_RD_TV32_SRF_EX333_TC333	--	6		1	1				1								1	1
HS2D-144_LB222222_TV32_SRF_EX333_TC333	--	6		1					1								1	1
HS2D-144_LB222222_TV32_EX3333_TC3333_DP15	--	6		1					1								1	1
HS2E-72_LBxxxxxx	--	--	--	--		1									1			
HS2E-108_LBxxxxxx	--	--	--	--				1								1		
HS2E-144_LBxxxxxx	--	--	--	--					1								1	

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

*These SKUs are interpreted as follows. In **HS2y-ZZ_LBxxxxxx_P_PAYG_Q**,

- **y**: can be blank or A, B, C, D or E;
blank, B, and D are used to represent a torch is included in the kit;
A, C and E are used to represent a torch is not included in the kit.
Each letter represents a different combination of battery and solar module; please reference the examples in the table above.
- **ZZ**: can be 3.2 Ah 6 Ah, 9.6 Ah, 12 Ah or 18 Ah and is used to represent different battery capacity;
- **xxxxxx**: each x can be either 1, 2, 4 or blank, and is used to represent the type and number of light bulbs (1 W, 2 W or 4 W) included with the kit. For example, LB2244 includes two 2 W bulbs and two 4 W bulbs.
- **P**: can be Lighting Global verified products like RD (radio) or TV24 or TV24_SRF or TV32 or TV32_SRF or blank
- **PAYG**: can be KEYP or GSMP, which are options for pay-as-you-go code inputs
- **Q**: can be TCx, EXx, PEx or DP15 and indicates T-type connector (TC); 3 m extension cable (EX); 3 m panel extension cable (PE); 1.5 m appliance power cable (DP15); 300 mm parallel cable (PP03); 500 mm parallel cable (PP05); and x indicates the number of connectors or cables.

NOTICE:

Only the HS2-230_LB124_KEP was fully tested as a system according to Edition 4 of IEC 62257-9-5. Individual A Standardized Specifications Sheet (SSS) that reports system-level performance is available for the HS2-230_LB124_KEP 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

A two-year warranty covers the battery, solar panel, and LED bulbs. A one-year warranty covers the TV and radio.

Marks and Certifications

Factory certification	ISO 9001:2015
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