VeraSol
Standardized Specifications Book

Company Name: Zigong Xingchuan Photoelectric Co., Ltd.

Brand Name: Zonergy

Component Family Name: ZONERGY ZSPD Family

Family Expirtaion Date: January 31, 2026

Verify Online: https://data.verasol.org/products/sek/zon-zspd-family

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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 IEC TS 62257-9-8.

Quality Standards Framework Version: 2024

Revision: 2024.11

Component-Level Standardized Specifications Sheet

Zigong Xingchuan Photoelectric Co., Ltd.

ZONERGY ZSPD Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
4 Ah main unit battery	Lithium iron phosphate	12.8	4000	4100
6 Ah main unit battery	Lithium iron phosphate	12.8	6000	not tested
12 Ah main unit battery	Lithium iron phosphate	12.8	12000	12000
18 Ah main unit battery	Lithium iron phosphate	12.8	18000	not tested
20 Ah main unit battery	Lithium iron phosphate	12.8	20000	20000
28 Ah main unit battery	Lithium iron phosphate	12.8	28000	not tested
40 Ah main unit battery	Lithium iron phosphate	12.8	40000	40000
Radio battery	Lithium 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 module	10	11
20 W PV module	20	not tested
30 W PV module	30	30
50 W PV module	50	not tested
60 W PV module	60	52
80 W PV module	80	75
100 W PV module	100	97

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	on	on	on
2.2 W LED Bulb	210	260	110
3 W LED Bulb	310	not tested	not tested
5 W LED Bulb	480	510	96

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Table Fan	16" table fan	15	15	--	--
Standing Fan	16" standing fan	15	15	--	--
LDC TV 19"	19" diagonal	30	14	--	--
LDC TV 22"	22" diagonal	30	18	--	--
Radio	Portable Li-ion battery (2 Ah, 3.7 V)	5	0.29	2000	1900

*Light points and appliances may perform differently when used with different systems.

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 IEC TS 62257-9-8:2020. 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

Zigong Xingchuan Photoelectric Co., Ltd.

ZONERGY ZSPD Family

System Name	Number of each component included in each system																					
	2.2 W LED Bulb	3 W LED Bulb	5 W LED Bulb	4 Ah main unit battery	6 Ah main unit battery	12 Ah main unit battery	18 Ah main unit battery	20 Ah main unit battery	28 Ah main unit battery	40 Ah main unit battery	10 W PV module	20 W PV module	30 W PV module	50 W PV module	60 W PV module	80 W PV module	100 W PV module	Table fan	Stand fan	LCD TV 19"	LCD TV 22"	Radio
ZSPD-LFP0010B04	3	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	0-1
ZSPD-LFP0020B06	3	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	0-1
ZSPD-LFP0030B12	--	3	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	0-1	0-1	0-1	0-1	0-1
ZSPD-LFP0050B18	--	3	--	--	--	--	1	--	--	--	--	--	--	1	--	--	--	0-1	0-1	0-1	0-1	0-1
ZSPD-LFP0060B20	--	3	--	--	--	--	--	1	--	--	--	--	--	--	1	--	--	0-1	0-1	0-1	0-1	0-1
ZSPD-LFP0080B18	--	3	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	0-1	0-1	0-1	0-1	0-1
ZSPD-LFP0080B20	--	3	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	0-1	0-1	0-1	0-1	0-1
ZSPD-LFP0080B28	--	--	4	--	--	--	--	--	1	--	--	--	--	--	--	1	--	0-1	0-1	0-1	0-1	0-1
ZSPD-LFP0100B40 **	--	--	4	--	--	--	--	--	--	1	--	--	--	--	--	--	1	0-1	0-1	0-1	0-1	0-1
ZSPD-LFP**B**-2.2(*)3(*)5(*)**	0-4	0-4	0-4	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1

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

**** stands for the power of PV module, including 0010(10W), 0020(20W), 0030(30W), 0050(50W), 0060(60W), 0080(80W), 0100(100W).

** stands for the capacity of Li-ion battery, including 04(4Ah), 06(6Ah), 12(12Ah), 18(18Ah), 20(20Ah), 28(28Ah), 40(40Ah).

2.2 stands for 2.2W LED lamp, 3 stands for 3W LED lamp, 5 stands for 5W LED lamp.

(*) stands for the quantity of LED lamps.

0-4 stands for 0 to 4 LED lamps

NOTICE:

Only the kits denoted with ** were tested as full systems according to Edition 4 of IEC 62257-9-5 and passed IEC 62257-9-8 standards. An Individual Standardized Specification Sheet (SSS) that reports system-level performance is available for these systems at 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 IEC 62257-9-8.

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

Warranty Information

A 2-year warranty covering entire system and included appliances.

Available Daily Electrical Energy and Port Information

Zigong Xingchuan Photoelectric Co., Ltd.

ZONERGY ZSPD Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
ZSPD-LFP0010B04	39	yes
ZSPD-LFP0050B18	180	yes
ZSPD-LFP0100B40**	350	yes

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

NOTICE:

The 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.