

VeraSol

Standardized Specifications Book

Manufacturer: Zimpertec GmbH & Co KG

Component Family Name: Power Brick Family

Date of Standardized Specifications Book Expiration: March 31, 2025

Verify Online: <https://data.verasol.org/products/sek/zim-pbfamily>

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Website: <https://www.zimpertec.com/>



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 meet the requirements in IEC 62257-9-8.

Revision: 2023.12

Component-Level Standardized Specifications Sheet

Zimpertec GmbH & Co KG

Power Brick Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
PS038	Lithium iron phosphate	3.2	3.8	4.1
PS076	Lithium iron phosphate	3.2	7.6	not tested
PS0114	Lithium iron phosphate	3.2	11.4	12

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
4 W PV module	4	3.8
6 W PV module	6	not tested
10 W PV module	10	9.3

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	On	High	On	High	On
PSL-3.1/100-06	100	--	120	--	150	--
PSL-3.1/140-06	140	--	150	--	140	--
PSL-5/100-06S	--	100	--	120	--	140
PSL-5/140-06S	--	140	--	160	--	140

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 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

Zimpertec GmbH & Co KG

Power Brick Family

System Name	Number of each component included in each system									
	PS038 main unit	PS076 main unit	PS114 main unit	4 W PV	6 W PV	10 W PV	PSL- 3.1/100-06 lamp	PSL- 3.1/140-06 lamp	PSL- 5/100-06S lamp	PSL- 5/140-06S lamp
PS038-K005	1	--	--	1	--	--	1	--	--	--
PS076-K006	--	1	--	--	1	--	2	--	--	--
PS076-VL006	--	1	--	--	1	--	2	--	--	--
PS114-VL009	--	--	1	--	--	1	2	--	1	--
PS114-K007**	--	--	1	--	--	1	2	--	--	--
PS038-SP004-FLEX	1	--	--	1	--	--	0-2	0-2	0-1	0-1
PS038-SP006-FLEX	1	--	--	--	1	--	0-2	0-2	0-1	0-1
PS038-SP010-FLEX	1	--	--	--	--	1	0-2	0-2	0-1	0-1
PS076-SP004-FLEX	--	1	--	1	--	--	0-2	0-2	0-1	0-1
PS076-SP006-FLEX	--	1	--	--	1	--	0-2	0-2	0-1	0-1
PS076-SP010-FLEX	--	1	--	--	--	1	0-2	0-2	0-1	0-1
PS114-SP004-FLEX	--	--	1	1	--	--	0-2	0-2	0-1	0-1
PS114-SP006-FLEX	--	--	1	--	1	--	0-2	0-2	0-1	0-1
PS114-SP010-FLEX	--	--	1	--	--	1	0-2	0-2	0-1	0-1

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

NOTICE:

Only the PS114-K007 was fully tested as a system according to Edition 4 of IEC 62257-9-5. An Individual Standardized Specifications Sheet (SSS) that reports system-level performance is available for the PS114-K007 at <https://data.verasol.org/products/sek/>

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 requirements in IEC 62257-9-8.

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

Warranty Information

3 year warranty on all kits and components

Available Daily Electrical Energy and Port Information

Zimpertec GmbH & Co KG

Power Brick Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
PS114-K007**	28	yes
PS038-K005	12	yes
PS076-K006	19	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. Estimating Wh/day values requires making assumptions about system efficiencies, power consumption, and user behavior. As with any calculation based on multiple assumptions, there is some degree of error in the Wh/day estimate, which may be greater or less than the actual value for a given product.