VeraSol
Standardized Specifications Book

Manufacturer: Shenzhen Solar Run Energy Co. Ltd.

Component Family Name: YelloBox Family

Date of Standardized Specifications Book Expiration: June 30, 2024

Verify Online: https://data.verasol.org/products/sek/ssr-ybfamily

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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 or to meet the requirements in IEC 62257-9-8.

Quality Standards Framework Version: 2021
Revision: 2024.04

Component-Level Standardized Specifications Sheet
Shenzhen Solar Run Energy Co. Ltd.
YelloBox Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
Main Unit with 6 Ah battery (6.4 V)	LiFePO4	6.4	6	5.9
Main Unit with 6 Ah battery (12.8 V)	LiFePO4	12.8	6	5.9
Main Unit with 12 Ah battery	LiFePO4	6.4	12	12

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
10/12 W PV Module	10/12	10
15 W PV Module	15	Not tested
20 W PV Module	20	20

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Low	High	Low	High	Low
1 W Lamp	120	--	140	--	130	--
1.5 W lamp (9 LEDs, 2 settings)	170	--	170	100	120	130
2 W Lamp (9 LEDs, 2 settings)	175	--	190	100	120	130
2 W Lamp (6 LEDs, 1 setting)	180	--	210	--	160	--
3 W Lamp	300	--	320	--	120	--
Integrated Light with 3 Ah battery	not tested		not tested		not tested	
Integrated Light with 5.2 Ah battery	140	2	150	25	75	45
Integrated Light with 6 Ah (12.8V) battery	140	--	130	--	57	--
Integrated Light with 6 Ah (6.4V) battery	80	--	77	--	81	--
Integrated Light with 12 Ah battery*	80	--	Not tested	--	Not tested	--

*Not tested, LED in 12Ah unit is the same as in the 6Ah (6.4V) unit

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 or 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
Shenzhen Solar Run Energy Co. Ltd.
YelloBox Family

System Name	Number of each component included in each system											
	1 W Lamp	1.5 W lamp (9 LEDs)	2 W Lamp (9 LEDs)	2 W Lamp (6 LEDs)	3W Lamp	Main Unit (6.4V/6000mAh)	Main Unit with integrated light (6.4V/6000mAh)	Main Unit with integrated light (6.4V/12000mAh)	Main Unit with integrated light (12.8V/6000mAh)	10/12 W PV module	15 W PV module	20W PV module
YelloBox K088T1**	3	--	--	--	--	--	1	--	--	1	--	--
YelloBox K088T4**	--	--	--	3	--	--	--	--	1	--	--	1
YelloBox K088T232G1	--	3	--	--	--	1	--	--	--	1	--	--
YelloBox K088T1******G	0-4	--	0-4	0-4	0-4	1	--	--	--	1	--	--
YelloBox K088T2******G	0-4	--	0-4	0-4	0-4	1	--	--	--	1	--	--
YelloBox K088T3******YG	0-4	--	0-4	0-4	0-4	--	--	1	--	--	1	--
YelloBox K088T4******YG	0-4	--	0-4	0-4	0-4	--	--	--	1	--	--	1
YelloBox K088T5******YG	0-4	--	0-4	0-4	0-4	--	--	1	--	--	--	1
YelloBox K088T6******YG	0-4	0-4	0-4	0-4	0-4	1	--	--	--	--	1	--

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

****** : Each * can be either 1, 2, 3, 4, 5 or blank, and is used to represent the type and number of light bulbs (1W, 1.5W, 2W, 3W) included with the kit; G represents PAYG mode, Blank without PAYG, "1" represent select 1.5 W lamp.
For example: K088T23213G1 includes 3 pcs 1.5 W lamp, 1 pcs 3 W lamp, 6.4 V 6000 mAh battery, PAYG mode

NOTICE:

Only the YelloBox K088 T4 and YelloBox K088 T1 were fully tested as systems according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the YelloBox K088 T4 and the YelloBox K088 T1 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 applicable Lighting Global Quality Standards or the requirements in IEC 62257-9-8.

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

Warranty Information

A 3-year warranty covering manufacturing defects in the system.

Available Daily Electrical Energy and Port Information
Shenzhen Solar Run Energy Co. Ltd.
YelloBox Family

System Name	Available Daily Electrical Energy (Wh/day)
YelloBox K088T1 **	29
YelloBox K088T4**	79
YelloBox K088T232G1	37
YelloBox K088T1 ******	29
YelloBox K088T2 ******	37
YelloBox K088T3 ******	51
YelloBox K088T4 ******	79
YelloBox K088T6 ******	38

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

****** : Each * can be either 1, 2, 3, 4, 5 or blank, and is used to represent the type and number of light bulbs (1W, 1.5W, 2W, 3W)included with the kit; G represents PAYG mode, Blank without PAYG, "1" represent select 1.5 W lamp. For example: K088T23213G1 includes 3 pcs 1.5 W lamp, 1 pcs 3 W lamp, 6.4 V 6000 mAh battery, PAYG mode

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.