

VeraSol

Standardized Specifications Book

Company Name: Shenzhen Solar Run Energy Co., Ltd.

Brand Name: Solar Run

Component Family Name: YelloBox family

Family Expiration Date: December 31, 2026

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

Contact Information: eng@solarunoffgrid.com

Website: www.solarunoffgrid.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 5 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: 2025

Revision: 2025.09

Component-Level Standardized Specifications Sheet

Shenzhen Solar Run Energy Co., Ltd.

YelloBox family

Batteries / Control Boxes

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
6 Ah main unit	Lithium iron phosphate	6.4	6000	6000
12 Ah main unit	Lithium iron phosphate	6.4	12000	11900
Torch battery	Lithium iron phosphate	3.2	600	600
Radio battery	Lithium ion	3.7	1500	1900

PV Modules

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
10 W monocrystalline PV module	10	10
12 W monocrystalline PV module	12	12
15 W monocrystalline PV module	15	not tested
21 W monocrystalline PV module	21	21

Light Sources^

Name / Model Number	Luminous Flux Rating (lm)			Measured Luminous Flux (lm)			Measured Lamp Efficacy (lm/W)		
	high	low	on	high	low	on	high	low	on
2 W lamp	240	120	-	250	not tested	-	170	not tested	-
1 W lamp	-	-	120	-	-	130	-	-	190
3 W lamp	-	-	360	-	-	380	-	-	180
1.2 W lamp	170	-	-	190	-	-	170	-	-
3 W tubelight	-	-	360	-	-	400	-	-	130
Torch (SR03)	-	-	-	-	-	-	-	-	-
Integrated light	80	10	-	77	not tested	-	170	not tested	-

Appliances^

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Torch (SR03)	59 lumens torch, (LiFePO4 battery; 0.6 Ah, 3.2 V)	--	0.39	600	600
Radio (F170)	Portable radio (Li-ion battery, 1.9 Ah, 3.7 V) with power consumption of 0.44 W while in use	--	0.44	1500	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 5 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

Shenzhen Solar Run Energy Co., Ltd.
YelloBox family

Number of each component included in each system													
System Name	1 W lamp	1.2 W lamp	2 W lamp	3 W lamp	3 W tubelight	6 Ah main unit	12 Ah main unit	10 W PV module	12 W PV module	15 W PV module	21 W PV module	Radio	Torch
YellowBox-Solar Home System (K088T232XYG)°	--	--	3	--	--	1	--	--	1	--	--	1	1
Yellobox K088T1*****G°	0-4	0-4	0-4	0-4	0-4	1	--	1	--	--	--	0-1	0-1
Yellobox K088T2*****G°	0-4	0-4	0-4	0-4	0-4	1	--	--	1	--	--	0-1	0-1
Yellobox K088T3*****G°	0-4	0-4	0-4	0-4	0-4	--	1	--	--	1	--	0-1	0-1
Yellobox K088T4*****G°	0-4	0-4	0-4	0-4	0-4	--	1	--	--	--	1	0-1	0-1
Yellobox K088T5*****G°	0-4	0-4	0-4	0-4	0-4	--	1	--	--	--	1	0-1	0-1
Yellobox K088T6*****G°	0-4	0-4	0-4	0-4	0-4	1	--	--	--	1	--	0-1	0-1

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

The number after "T" represents the following:

T1 = 6 Ah main unit & 10 W PV, T2 = 6 Ah main unit & 12 W PV, T3 = 12 Ah main unit & 15 W PV, T4 = 6 Ah main unit & 20 W PV, T5 = 12 Ah main unit & 20 W PV, T6 = 6 Ah main unit & 15 W PV

First number = number of bulbs

Second number = Bulb type: "1" represents the 1W lamp, "2" represents the 2W lamp, "3" represents the 3W lamp, "4" represents the 3W Tubelight, and "5" represents the 1.2 W lamp.

X includes torch; blank without

Y includes Radio; blank without

G represent PAYG mode; blank without PAYG

† ° Kit has PAYG function.

NOTICE:

Only the kits denoted with ** were tested as full systems according to Edition 5 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 TS 62257-9-8:2020.

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

Warranty Information	
1	1
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100	100

A 2-year warranty covering manufacturing defects in the system and 1-year warranty for the radio.

Available Daily Electrical Energy and Port Information

Shenzhen Solar Run Energy Co., Ltd.

YelloBox family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
YellowBox-Solar Home System (K088T232XYG) ^{o**}	34	yes
Yellobox K088T1 ^{*****G°}	33	yes
Yellobox K088T3 ^{*****G°}	52	yes
Yellobox K088T5 ^{*****G°}	69	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 Edition 5. 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.