

VeraSol

Standardized Specifications Book

Company Name: Shenzhen Solar Run Energy Co., Ltd

Brand Name: Solar Run

Component Family Name: Apollo Family

Family Expiration Date: January 31, 2026

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

Contact Information: info@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 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: 2025

Revision: 2025.02

Component-Level Standardized Specifications Sheet

Shenzhen Solar Run Energy Co., Ltd

Apollo Family

Batteries / Control Boxes

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
6 Ah main unit battery	Lithium iron phosphate	12.8	6	5.7
12 Ah main unit battery	Lithium iron phosphate	12.8	12	Not tested
18 Ah main unit battery	Lithium iron phosphate	12.8	18	18
Radio battery	Lithium ion	3.7	1.5	1.9
Torch battery	Lithium iron phosphate	3.2	0.6	0.6

PV Modules

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
30 W Monocrystalline PV module	30	30
40 W Monocrystalline PV module	40	Not tested
50 W Monocrystalline PV module (SR31C)	50	53
60 W Monocrystalline PV module	60	Not tested
80 W Monocrystalline PV module	80	78

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)				Measured Luminous Flux (lm)				Measured Lamp Efficacy (lm/W)			
	high	low	on	torch	high	low	on	torch	high	low	on	torch
3 W lamp	360	120	-	-	390	Not tested	-	-	160	Not tested	-	-
1 W Sensor Light	-	-	120	-	-	-	140	-	-	-	97	-
Torch (SR03)	-	-	-	60	-	-	-	59	-	-	-	100

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
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	1.5	1.9
Torch (SR03)	59 lumens torch, (LiFePO4, SLA battery: 0.6 Ah, 3.2 V)	--	0.39	0.6	0.6
16" fan	16 " standing fan (12 W power)	11	12	--	--
24" TV	24" diagonal (8.7 W power consumption while in-use)	12	8.7	--	--
32" T V	32" diagonal (10 W power consumption while in-use)	12.3	10	--	--

* 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

Shenzhen Solar Run Energy Co., Ltd

Apollo Family

System Name	Number of each component included in each system														
	3 W lamp	1 W Sensor Light	30 W Monocrystalline PV module	40 W Monocrystalline PV module	50 W Monocrystalline PV module	60 W Monocrystalline PV module	80 W Monocrystalline PV module	6 Ah main unit	12 Ah main unit	18 Ah main unit	Radio	Torch	16" fan	24" TV	32" TV
SR31A331YTG Solar Home System °	3	1	1	--	--	--	--	1	--	--	1	1	--	--	--
SR31A431YTG Solar Home System °	3	1	--	1	--	--	--	1	--	--	1	1	--	--	--
SR31B331YTG Solar Home System °	--	1	1	--	--	--	--	--	--	--	1	1	--	--	--
SR31B431ZYTG Solar Home System °	3	1	--	1	--	--	--	--	1	--	1	1	--	1	--
SR31B531ZYTG Solar Home System °	3	1	--	--	1	--	--	--	1	--	1	1	--	1	--
SR31C531XYTG Solar Home System ° **	3	1	--	--	1	--	--	--	--	1	1	1	--	--	1
SR31C631XYTG Solar Home System °	3	1	--	--	--	1	--	--	--	1	1	1	--	--	1
SR31C831XYTFG Solar Home System °	3	1	--	--	--	--	1	--	--	1	1	1	1	--	1
SR31A****G °	0-5	0-1	0-1	0-1	0-1	0-1	0-1	1	--	--	0-1	0~1	0-1	0-1	0-1
SR31B****G °	0-5	0-1	0-1	0-1	0-1	0-1	0-1	--	1	--	0-1	0~1	0-1	0-1	0-1
SR31C****G °	0-5	0-1	0-1	0-1	0-1	0-1	0-1	--	--	1	0-1	0~1	0-1	0-1	0-1

**Tested as full systems. Individual SSS available on VeraSol website.
° Kit has PAYG function.

The model numbers of the Apollo family kits can be interpreted using the following code key:

Component	Battery			PV module					Lighting (**)		Appliances				
Code	A	B	C	3	4	5	6	8	First *	Second *	Y	T	F	Z	X
Component Rating	6 Ah	12 Ah	18 Ah	30 W	40 W	50 W	60 W	80 W	3 W lamp	1 W Sensor Light	Radio	Torch	16" fan	24" TV	32" TV

1. A-C represent battery size
2. 3-8 represent solar panel size
3. the next two numbers (**) represent the number of 3 W lamps and 1 W sensor lights respectively
4. Radio: Y, Torch: T, 16" fan: F, 24" TV: Z, 32" TV: X
5. the "G" indicates that the kit is PAYG enabled

Example: SR31B531ZYTG: 12 Ah main unit, 50 W PV module, 3x 3 W lamps, 1x sensor light, 24" TV, Radio, Torch, PAYG

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 manufacturing defects in the system and a 1-year warranty for the radio and 16" fan.

Available Daily Electrical Energy and Port Information

Shenzhen Solar Run Energy Co., Ltd

Apollo Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
SR31C531XYTG Solar Home System ^{0**}	170	yes
SR31A331YTG Solar Home System ⁰	67	yes
SR31A431YTG Solar Home System ⁰	70	yes
SR31B431ZYTG Solar Home System ⁰	70	yes
SR31B531ZYTG Solar Home System ⁰	150	yes
SR31C531XYTG Solar Home System ⁰	150	yes
SR31C631XYTG Solar Home System ⁰	220	yes
SR31C831XYTFG Solar Home System ⁰	220	yes

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

⁰ Kit has PAYG function.

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.