VeraSol
Standardized Specifications Book

Manufacturer: Shenzhen Solar Run Energy Co. Ltd.

Component Family Name: Apollo Family

Date of Standardized Specifications Book Expiration: March 31, 2024

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

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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 applicable Lighting Global Quality Standards or the requirements in IEC 62257-9-8.

Revision: 2024.02

Component-Level Standardized Specifications Sheet

Shenzhen Solar Run Energy Co. Ltd.

Apollo Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
Main Unit with 6 Ah battery	Lithium iron phosphate	12.8	6	5.7
Main Unit with 12 Ah battery	Lithium iron phosphate	12.8	12	Not tested
Main Unit with 18 Ah battery	Lithium iron phosphate	12.8	18	18
Torch battery	Lithium iron phosphate	3.2	0.6	0.6

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
20 W PV module	20	22
30 W PV module	30	Not tested
40 W PV module	40	Not tested
50 W PV module	50	53
60 W PV module	60	59
80 W PV module	80	78
Integrated Torch PV Module	0.2	0.18

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
3 W LED lamp (275 lm)	240	280	110
Torch (front light)	50	56	95

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
16" fan	16" diameter, 11 W power	11	12	--	--
23" TV	23" diagonal	--	8.7	--	--
32" TV	32" diagonal (12.3 W power consumption while in use)	12	12	--	--
Radio	Portable radio with 3.7 V internal battery	--	0.44	1.5	1.9

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.

Apollo Family

	Number of each component included in each system													
System Name	**3 W (275 lm) lamp**	**20 W PV**	**30 W PV**	**40 W PV**	**50 W PV**	**60 W PV**	**80 W PV**	**6 Ah battery**	**12 Ah battery**	**18 Ah battery**	**Radio**	**16" fan**	**24" TV**	**32" TV**
SR31A23YG	3	1	--	--	--	--	--	1	--	--	1	0-1	0-1	0-1
SR31A33YG	3	--	1	--	--	--	--	1	--	--	1	0-1	0-1	0-1
SR31A43ZYG	3	--	--	1	--	--	--	1	--	--	1	1	1	--
SR31B43XYG	3	--	--	1	--	--	--	--	1	--	1	1	1	1
SR31B53XYG	3	--	--	--	1	--	--	--	1	--	1	1	1	1
SR31C53YG**	3	--	--	--	1	--	--	--	--	1	1	0-1	0-1	0-1
SR31C53XYG	3	--	--	--	1	--	--	--	--	1	1	1	--	1
SR31C63XYG	3	--	--	--	--	1	--	--	--	1	1	1	--	1
SR31C83XYG	3	--	--	--	--	--	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
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
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

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

X represents 32" TV; Z represents 24" TV; Y represents Radio; G represents PAYG mode.
Accessories are listed as optional (0-1).

**: The first "*" represents the power of the solar panel; Second "*" can be either 1, 2, 3, 4, 5, or blank and is used to represent the number of light bulbs (3W) included with the kit. For example: SR31C53XYG has a 50 W solar panel, includes 3 pcs 3 W bulbs, 1pcs 32" TV, 1pcs radio, and is a PAYG product.

NOTICE:

Only the SR31C53YG was fully tested as a system according to Edition 4 of IEC 62257-9-5. a Individual Standardized Specifications Sheet (SSS) that report system-level performance are available for the SR31C53YG 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 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
Two year warranty on all kits and components

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?
SR31C53YG**	180	yes
SR31A23YG	64	yes
SR31A33YG	67	yes
SR31A43ZYG	70	yes
SR31B43XYG	70	yes
SR31B53XYG	150	yes
SR31C53XYG	150	yes
SR31C63XYG	220	yes
SR31C83XYG	222	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.