

VeraSol

Standardized Specifications Book

Company Name:	Shenzhen Skyworth Energy Storage Technology Limited
Brand Name:	Sun Joy
Product Family Name:	Sun Joy Series Family
Family Expiration Date:	September 30, 2026
Verify Online:	https://data.verasol.org/products/sek/ssw-sjsfamily
Contact Information:	Jonas Zeng
Website:	zengchao@skyworth.com
Co-brand of:	Home Mate H3 Family (JUA Energy Company Limited)



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 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: 2025.11

Component-Level Standardized Specifications Sheet

Shenzhen Skyworth Energy Storage Technology Limited

Sun Joy Series Family

Starred components below (☆) are co-branded by Shenzhen Skyworth Energy Storage Technology Limited

Batteries / Control Boxes				
Name / Model Number	Battery Chemistry	Nominal Voltage [V]	Battery Capacity (Rated) [mAh]	Battery Capacity (Measured) [mAh]
38 Wh battery ☆	Lithium iron phosphate	6.4	6000	5900
56 Wh battery	Lithium iron phosphate	9.6	6000	5800
76 Wh battery	Lithium iron phosphate	6.4	12000	Not tested
110 Wh battery	Lithium iron phosphate	6.4	18000	18000

PV Modules		
Name / Model Number	Peak Power at STC (Rated) [W]	Peak Power at STC (Measured) [W]
12 W monocrystalline PV module ☆	12	12
20 W monocrystalline PV module	20	Not tested
30 W monocrystalline PV module	30	Not tested
40 W monocrystalline PV module	40	38
50 W monocrystalline PV module	50	48

Light Sources^						
Name / Model Number	Luminous Flux (Rated) [lm]		Luminous Flux (Measured) [lm]		Lamp Efficacy (Measured) [lm/W]	
	High	Low	High	Low	High	Low
130 lm lamp ☆	130	Not tested	150	Not tested	120	Not tested
200 lm shaded lamp ☆	200	Not tested	270	Not tested	120	Not tested
300 lm lamp	300	Not tested	440	Not tested	120	Not tested

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).

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NOTICE:

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

A 2-year warranty covering manufacturing defects in the system.

Available Daily Electrical Energy and Port Information

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Sun Joy Series Family

System Name	Available Daily Electrical Energy [Wh/day]	Includes ports for charging?
HOME MATE Solar Energy Series (H3G-110)**	120	yes
Home Mate Series (H3G-38)	42	yes
Sun Joy Series (PB3-38)	42	yes

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

° 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 Edition 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.