VeraSol
Standardized Specifications Book

Manufacturer: Poly Solar Technologies (Beijing) Co., Ltd

Component Family Name: Solar Home System Family

Date of Standardized Specifications Book Expiration: October 31, 2022

Verify Online: https://data.verasol.org/products/sek/ps-shsfamily-lfp

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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.

Quality Standards Framework Version: 2020
Revision: 2020.10

Component-Level Standardized Specifications Sheet
Poly Solar Technologies (Beijing) Co., Ltd
Solar Home System Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
LiFePo4 12.8V/30Ah-384Wh	Lithium iron phosphate	12.8	30	31
LiFePo4 12.8V/24Ah-307.2wh	Lithium iron phosphate	12.8	24	--
LiFePo4 12.8V/18Ah-230.4wh	Lithium iron phosphate	12.8	18	19

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
Poly-Si 100 W	100	98
Poly-Si 80 W	80	--
Poly-Si 60 W	60	--
Poly-Si 50 W	50	52

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	On	On	On
1.5 W bulb	180	180	120
5 W bulb	600	630	130
3 W bulb	300	330	100

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. 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
Poly Solar Technologies (Beijing) Co., Ltd
Solar Home System Family

System Name	Number of each component included in each system									
	Bulb 1.5W	Bulb 3W	Bulb 5W	Poly-Si 50Wp	Poly-Si 60Wp	Poly-Si 80Wp	Poly-Si 100Wp	LiFePo4 12.8V/18Ah-230.4wh	LiFePo4 12.8V/24Ah-307.2wh	LiFePo4 12.8V/30Ah-384Wh
PL-50-H-LFP	3	1		1				1		
PL-60-H-LFP	3	1			1			1		
PL-80-H-LFP	3	1				1			1	
PL-80-H-LFP-18	3	1				1		1		
PL-80-H-LFP-30	3	1				1				1
PL-100-H-LFP**	3		1				1			1

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

NOTICE:

Only the PL-100-H-LFP was fully tested as a system according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the PL-100-H-LFP 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.

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

Warranty Information
3-year warranty. The warranty would be voided if the product has been tampered with.

Marks and Certifications
Factory certification	ISO 9001:2015