



VeraSolSM

VeraSol* Product Certificate

*Previously Lighting Global Quality Assurance

Bright Home 800 TV

Expiration Date: March 31, 2024¹

Verify here: <https://data.verasol.org/products/sek/bp-home800>

This document verifies that the Bright Home 800 TV was tested according to the following test methods and conformed with the following standards:

Test methods: IEC TS 62257-9-5:2018²
Quality standards: Lighting Global Solar Home System Kit Quality Standards³

Testing Details

Product Name: Bright Home 800 TV
Model Number: Home 800 TV
Company Name: Bright Products AS
Country of Origin: China
Company Contact: Line Iren Anderson, line@bright-products.com
Original QTM Sample Size: n=4
Renewal Test Conducted: n/a
Sample Procurement Method: Random warehouse sampling
Testing Laboratory: Shenzhen Academy of Metrology and Quality Inspection, Shenzhen, China

Documentation

Specifications sheet with verified test results and original version of this verification:
<https://data.verasol.org/products/sek/bp-home800>

Ari Reeves
Senior Manager, CLASP

¹ VeraSol requires re-testing every two years or upon major product revisions, and in special cases reserves the right to grant an extension on results validity.

² <https://verasol.org/solutions/test-methods>

³ <https://verasol.org/solutions/quality-standards>

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Category	Quality Standard	Verdict
Truth In Advertising	Manufacturer, Product Name and Model Number accurately specified	Pass
	Performance and component ratings accurately specified. Any description of the product that appears on the packaging, inside the package and in any media shall be truthful and accurate. No statements mislead buyers or end users about the utility of the product. Numeric ratings deviate no more than 15% from actual performance (note that it is acceptable for actual performance to exceed advertised performance).	Pass
	Port voltage and current specifications, if provided, are accurate. Included appliances function when connected to ports. Power output of ports is sufficient to power appliances that are advertised but not included. Ports that are intended for a function other than providing power, such as data ports, are not required to meet this standard.	Pass
Lumen Maintenance	Average relative light output $\geq 90\%$ of initial light output at 2,000 hours with only one sample allowed to fall below 85% OR All 4 samples maintain $\geq 95\%$ of initial light output at 1,000 hours	Pass
Circuit and Overload Protection	Products include a current limiting mechanism to prevent irreversible damage to the system. The mechanism is easily resettable or replaceable by the user, or automatically resets. If replaceable fuses are used for circuit protection, sizes are labeled on the product and listed in the user manual, and, if fuses are replaceable by the user, at least one spare fuse is included with the product. Included appliances are not required to meet this standard unless they have ports that are intended to provide power.	Pass
AC-DC Charger Safety	Any included AC-DC charger carries approval from a recognized consumer electronics safety regulator	n/a
Wiring and Connector Safety	Wires, cables and connectors are appropriately sized for the expected current and voltage.	Pass
Hazardous Substances Ban	No battery contains cadmium or mercury at levels greater than trace amounts	Pass

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Category	Quality Standard	Verdict
Battery Protection	Protected by an appropriate charge controller that prolongs battery life and protects the safety of the user. All 4 samples meet the requirements outlined in Lighting Global Quality Standards. Lithium batteries carry IEC 62281, IEC 62133-2, UL 1642 or UN 38.3 certification and have overcharge protection for individual cells or sets of parallel-connected cells. Batteries of included appliances must also meet this standard.	Pass
Battery Durability	The average capacity loss of 4 samples does not exceed 25% and only one sample may have a capacity loss greater than 35% following the battery durability storage test as defined in IEC TS 62257-9-5 Annex BB	Pass
PV Overvoltage Protection	If the battery is disconnected or isolated, the system must not be damaged and the load terminals shall maintain a voltage that is safe for their intended uses.	Pass
Miswiring Protection	The user interface is designed to minimize the likelihood of making improper connections. If improper or reversed connections can easily be made, they cause no damage to the system or harm to the user.	Pass
Physical Ingress Protection	IP2X for all products, IP3X (or 2X + circuit protection) for PV modules, IP5X for fixed outdoor products	Pass
Water Ingress Protection	Degree of protection required is based on product type: Fixed separate (indoor): No protection required Portable separate: Occasional exposure to rain Portable integrated: Frequent exposure to rain Fixed integrated (outdoor): Permanent outdoor exposure PV modules: Outdoor rooftop installation	Pass
Drop Test	Fixed separate (indoor): No requirement All other products: All samples are functional after drop test; none result in dangerous failures.	Pass
Soldering and Electronics Workmanship	The system and any included appliances are rated "Good" or Fair" for workmanship quality as defined in Annex F of IEC TS 62257-9-5. At most, one sample may fail to function when initially evaluated.	Pass
Mechanical Durability	All samples and included appliances are functional after Switch, Connector, Gooseneck and Strain Relief tests; none result in dangerous failures	Pass
Cable Specifications	Any outdoor cables must be outdoor-rated and UV resistant.	Pass

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Category	Quality Standard	Verdict
User Manual	User manual must present instructions for installation, use, and troubleshooting of the system. Installation instructions must include appropriate placement and installation of the PV module. Basic electrical safety and system maintenance must also be covered. Installation and operation instructions should be presented using language and graphics that can be understood by the typical consumer.	Pass
Component Specification and Replacement	Consumer information must provide at least one of the following options: 1) specifications for components that may require replacement (fuses, lights, PV, batteries) and instructions for replacement, OR 2) directions as to how the consumer can get components, including the battery, replaced at service centers, both during and post warranty, OR 3) a clear consumer-facing statement that the batteries and other components are not replaceable. A clear statement regarding the battery replacement must be included on the consumer-facing packaging or user agreement.	Pass
Minimum Warranty Terms	Accurately specified and consumer-facing; minimum coverage of at least two years for the system and one year for included appliances.	Pass
Performance Reporting	PV Power must be accurately reported on the product packaging.	Pass

Test Methods & Quality Standards

Products are tested according to the test methods described in IEC TS 62257-9-5:2018 and meet the Lighting Global Pico PV Quality Standards.

Additional details on the requirements listed above are available here:
<https://verasol.org/solutions/quality-standards>

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About VeraSol

An evolution of Lighting Global Quality Assurance, VeraSol supports high-performing, durable off-grid products that expand access to modern energy services. VeraSol builds upon the strong foundation for quality assurance laid by the World Bank Group and expands its services to encompass off-grid appliances, productive use equipment, and component-based solar home systems. VeraSol is managed by CLASP in collaboration with the Schatz Energy Research Center at Humboldt State University. Foundational support is provided by the World Bank Group's Lighting Global program, UKaid, IKEA Foundation, and others. Please visit [VeraSol.org](https://www.verasol.org) for more information.

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