

Lighting Global Standardized Specifications Book

Manufacturer: BBOXX Ltd.

Component Family Name: bPower

Date of Standardized Specifications Book Expiration: October 31, 2021

Verify Online: <http://www.lightingglobal.org/products/bb-bpower>

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This Lighting Global 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: 2018

Revision: 2020.03

Component-Level Standardized Specifications Sheet

BBOXX Ltd.

bPower Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity
bPower50 (SLA, PW-B02)	Sealed lead-acid	14.8	17000	17000
bPower50 (LiFePO4, PW-B03)	Lithium iron phosphate	12.8	12000	12000
Torch battery (Li-ion)	Lithium ion	3.7	2600	2500
Radio battery (Li-ion)	Lithium ion	3.7	2400	2400

PV Module

Name / Model Number	Peak Power at STC Rating	Measured Peak Power at STC
BBOXX Solar Panel	50	49

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)				Measured Luminous Flux (lm)				Measured Lamp Efficacy (lm/W)			
	High	Medium	Low		High	Medium	Low		High	Medium	Low	
BBOXX Light Bulb	130	N/A	N/A		120	--	--		80	--	--	
BBOXX Torch	130	--	--		150	--	57		123	--	133	

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
BBOXX 24" TV	24" diagonal (11 W power)	<18	11	--	--
BBOXX Radio	portable radio with internal battery, charges via USB	3	0.5	2400	2400

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

BBOXX Ltd.

bPower Family

System Name	Number of each component included in each system								
	Light Bulb	Torch	24" TV	BBOXX Radio	bPower50 (SLA, PW-B02)	bPower50 (LiFePO4, PW-B03)	50 W PV module		
bPower50 (SLA)**	4	1	1	1	1		1		
bPower50 (LiFePO4)	4	1	1	1		1	1		

**Tested as full systems. Individual SSS available on Lighting Global website.

NOTICE:

Only the bPower50 (PW-B02) 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 bPower50 (PW-B02) at www.lightingglobal.org/products. 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

A minimum of two years if purchased on payment plan. If not sold on payment plan, two years for main control unit, solar panel and lights, and one year for all other accessories.

Marks and Certifications

Factory certification	ISO 9001:2015
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