

Lighting Global Standardized Specifications Book

Manufacturer: Niwa Next Energy Products Ltd.

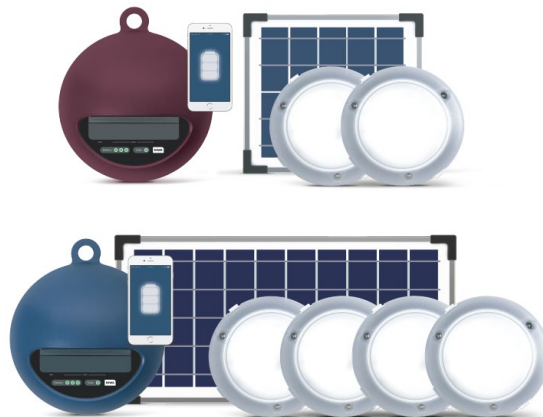
Component Family Name: HOME X Family

**Date of Standardized
Specifications Book Expiration:** March 31, 2022

Verify Online: www.lightingglobal.org/products/niwa-homexfamily

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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: 2020

Revision: 2020.04

Component-Level Standardized Specifications Sheet

Niwa Next Energy Products Ltd.

HOME X Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
3500 mAh Battery	Lithium iron phosphate	3.2	3500	3500
6500 mAh Battery	Lithium iron phosphate	3.2	6500	6500

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
4 W PV Module	4	3.9
8 W PV Module	8	8.2

Light Sources*

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Low	High	Low	High	Low
LED Lamp	100	50	150	60	140	150

Appliances*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Radio	3.7 V Li-Ion Battery	--	0.34	1000	1000

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

Niwa Next Energy Products Ltd.

HOME X Family

System Name	Number of each component included in each system					
	3500 mAh Battery	6500 mAh Battery	4 W PV Module	8 W PV Module	LED Lamp	Radio
HOME X Family** (item number 5800)	--	1	--	1	4	0-1
HOME X Starter (item number 0540)	1	--	1	--	4	0-1

**Tested as a full system without a radio. Individual SSS available on Lighting Global website.

NOTICE:

Only the HOME X Family 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 HOME X Family 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

Two year warranty on all kits and components

Marks and Certifications

Factory certification

ISO 9001:2015