

Lighting Global Standardized Specifications Book

Manufacturer: Niwa - Next Energy Products Ltd.

Component Family Name: MSS - Modular-Solar-Systems

**Date of Standardized
Specifications Book Expiration:** February 28, 2019

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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 latest version of the Quality Test Method (QTM) in 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: 2017

Revision: 2017.02

Component-Level Standardized Specifications Sheet

Niwa - Next Energy Products Ltd.

MSS - Modular-Solar-Systems Family

Battery / Control Box

Name / Model Number	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
Energy X2	3000	2900
Energy X3	5000	5500

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
Solar X3	5	4.5

Light Sources

Name / Model Number	Luminous Flux Rating (lm)				Measured Luminous Flux (lm)*				Measured Lamp Efficacy (lm/W)*			
	Ultra	High	Standard	Eco	Ultra	High	Standard	Eco	Ultra	High	Standard	Eco
Home 100 Lamp	--	100	50	20	Not Tested				Not Tested			
Home 300 Lamp	300	100	50	20	300	100	--	--	90	100	--	--
Office 100 Lamp (2 light pts)**	--	100	--	50	--	98	--	55	--	81	--	81
Office 300 Lamp (3 light pts)**	--	300	150	75	Not Tested				Not Tested			

Appliances

Name / Model Number	Description	Rated Power (W)	Measured Power (W)	Rated Battery Capacity (mAh)	Measured Battery Capacity (mAh)
Solar ELED TV 15.6"	12 V Television	10	7.7	--	--

*The luminous flux and lamp efficacy of the Office 100 Lamp was measured during the full system test of the Office 200 X2 kit, but the lamps were not tested individually. The individual luminous flux and lamp efficacies are estimated by dividing the overall luminous flux by the number of lamps and using the average lamp efficacies of these kits.

**The Office 100 Lamp consists of two light points which are each rated to output 50 lm on high, and the Office 300 Lamp consists of three light points which are each rated to output 100 lm on high. The reported luminous flux ratings present the total light output for all light points in the lamp.

NOTICE: As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in 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).

List of Covered Systems

Niwa - Next Energy Products Ltd.

MSS - Modular-Solar-Systems Family

System Name	Number of each component included in each system									
	Home 100 Lamp	Home 300 Lamp	Office 100 Lamp	Office 300 Lamp	Energy X2 (Battery)	Energy X3 (Battery)	Solar X3 (PV module)	Power Station	TV	USB Hub
Home 200 X2	2				1		1	1		1
Home 300 X3	3					1	1	1		2
Home 400 X3	4					1	1	1		2
Home 600 X3		2				1	1	1		1
Office 200 X2 **			2		1		1	1		1
Office 300 X3				1		1	1	1		1
TV X3						1	1	1	1	1
Energy Upgrade X2					1		1	1		1
Energy Upgrade X3						1	1	1		2

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

NOTICE: Only the Office 200 X2 was fully tested as a system according to the Quality Test Method (QTM) in IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the Office 200 X2 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

2 year warranty