

Home X PRO

Home X PRO
Niwa Next Energy Products Ltd.

Verify online:

<https://data.verasol.org/products/sek/niwa-homexpro>

Valid until: July 31, 2025

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the Requirements in IEC TS 62257-9-8:2020 for Size B kits



Mobile charging

PAYG

Pay-As-You-Go option available

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
				Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 lights on high totaling 430 lumens and 3 W power	10 hours	6 hours
no	not included	Smart phone	Smart Phone (5.7 Wh battery)	4.4 full charge(s)	2.2 full charge(s)

Available daily electrical energy ^c (Wh/day)	36
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Performance measure	Brightness setting: Three lights on, High
Lighting full battery run time ^d for main unit (hours)	10
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	4300

^a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

^b Without any other loads used during the run time

^c Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

^d Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

LIGHTING DETAILS



Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED lamp	3	2	high	140	140	80	5000	Wide	96%
			low	50	150	80	5000	--	--

^e Lumen efficacy is the power consumption at a light point during the light output test.

^f Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

^g Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

^h Percent of the original light output that remains after 2,000 hours of run time

PORTS		
1	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are included.
3	Barrel jack	 3.2 V ports available to power light points only.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		15 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		2 x 32700
Battery capacity		12 Ah
Battery nominal voltage		3.2 V
Battery status/ other indicator lights		Three LEDs indicate the battery status
PRODUCT DETAILS		
Manufacturer name		Niwa Next Energy Products Ltd.
Product name		Home X PRO
Product model / ID number		Home X PRO
Contact information		sales@niwa.com.hk
Website		www.niwa.com.hk
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		2310 g
SSS INFORMATION		
Specs sheet expiration date		July 31, 2025
Revision		2023.12