HOME X Family

5800

Niwa Next Energy Products Ltd.

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

https://data.verasol.org/products/sek/niwa-homex Valid until. May 31, 2023



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging



Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

PERFORMANCE DETAILS

Run time after a typical day of solar charging
(assuming 5kWh/m²/day)

	Appliance ^a	Description	Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	4 lights on high with 600 lumens and 4 W power	5.7 hours	4.1 hours
	Mobile phone	Smartphone (5.7 Wh battery)	2.3 full charge(s)	1 full charge(s)
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	4.1 full charge(s)	

Available daily electrical energy^c (Wh/day) 20

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	5.7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3420

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

^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	4	2	High	150	140	84	5200	Wide	100%

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

^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.

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

⁹ 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 tablets can be charged. Adapters are included.					
3 Barrel jack		3 barrel jacks are used for light points only				
DURABILITY						
Overall durability and workmanship		Pass				
Durability tests passed		Switch test, Strain relief test, Physical ingress protection.				
Local of control on the stime	Main Unit	Water ingress protection not tested, meant for indoor use only.				
Level of water protection	PV module	Has protection from permanent outdoor exposure				
SOLAR DETAILS						
PV module type		Polycrystalline silicon				
PV maximum power		8.2 watts				
MAIN UNIT BATTERY DETAILS						
Battery replaceability		Not easily replaceable with common tools.				
Battery chemistry		Lithium iron phosphate				
Battery package type		1 x 32700				
Battery capacity		6.5 Ah				
Battery nominal voltage		3.2 V				
Battery status indication		One indicator for PV charging, three for battery state of charge				
MARKS AND CERTIFICATIONS						
Factory certification		ISO 9001:2015				
PRODUCT DETAILS						
Manufacturer name		Niwa Next Energy Products Ltd.				
Product name		HOME X Family				
Product model / ID number		5800				
Contact information		sales@niwasolar.com				
Website		https://niwasolar.com/				
Dimensions (entire product in package)		20 x 38 x 15 cm				
Mass		2845 g				
SSS INFORMATION						
Specs sheet expiration date		May 31, 2023				
Quality standards framework version		2020				
Revision		2023.02				