

SM200 / Watu

SM200
Namene Solar Lights Limited

Verify online:
<https://data.verasol.org/products/sek/yl-sm200>
Valid until: October 31, 2025

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



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

1

Light point



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

PERFORMANCE DETAILS

Setting	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	Total light output (lumens)
Brightest	1 LED, 0.34 W power	3.4 hours	47 lumens
Brighter	1 LED, 0.22 W power	5.2 hours	31 lumens
Bright	1 LED, 0.092 W power	12.5 hours	13 lumens

Available daily electrical energy (Wh/day)

1

Performance measure

Brightness setting: Brightest

Lighting full battery run time (hours)

5.5

Total lighting service (lumen-hours/solar-day)

(includes the both main lighting unit and any lights with internal batteries included with the product)

160

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
Integrated Light	1	3	brightest	47	140	81	3900	Wide	102%

^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

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit with Integrated PV Module	Has protection from frequent rain; met IPX4
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		0.28 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Lithium iron phosphate
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		14500
Battery capacity		0.5 Ah
Battery nominal voltage		3.2 V
Battery status/ other indicator lights		one indicator for charging, one indicator for battery level
PRODUCT DETAILS		
Manufacturer name		Namene Solar Lights Limited
Product name		SM200 / Watu
Product model / ID number		SM200
Contact information		massimo.lisanti@namenensolar.com
Website		https://namenensolar.com
Tested as		SM200
Notes about branding		The SM200 and Watu are the same product, but the packaging and color of the housing differ
Dimensions (entire product in package)		9 x 9 x 3 cm
Mass		125 g
SSS INFORMATION		
Specs sheet expiration date		October 31, 2025
Revision		2024.01