

# MB3-200

MB3-200  
ovSolar

Verify online:

<https://data.verasol.org/products/sek/ovs-mb3-200>

Valid until: April 30, 2024

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 A Kits



Mobile charging

2

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 <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
				Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Integrated Lamp	1 light point on (Super) totaling 240 lumens and 1.9 power	6.8 hours	2.2 hours
yes	included	Torch	54 lumen torch (Li-Ion battery:2Ah, 3.7V)	7.4 hours	5.3 hours
yes	not included	Mobile phone	Basic phone (3.7 Wh battery)	1.3 full charge(s)	0.56 full charge(s)

Available daily electrical energy <sup>f</sup> (Wh/day)	12
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Performance measure	Brightness setting: Super
Lighting full battery run time <sup>d</sup> for main unit (hours)	7.7
Lighting full battery run time of the torch powered by torch battery (hours)	24
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1250

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

<sup>b</sup> Without any other loads used during the run time

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

<sup>d</sup> 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 <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Integrated lamp	1	3	Super	240	130	83	4880	Wide	99%
Torch	1	3	Super	54	58	91	3700	Wide	99%

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

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

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

<sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

SPECIAL FEATURES		
PV module charging	★ Both the integrated lamp and torch can be charged directly and simultaneously from the PV module.	
PORTS		
1	USB 2.0 type A  Mobile phones can be charged from the integrated lamp. Adapters are included.	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests	
Level of water protection	Integrated lamp	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure
	Torch	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type	Monocrystalline silicon	
PV maximum power	4.3 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.	
Battery chemistry	Lithium-ion	
Specific Li-ion battery chemistry	lithium nickel manganese cobalt oxide	
Battery package type	Integrated Lamp: 21700Torch : 18650	
Battery capacity	4.4 Ah	
Battery nominal voltage	3.7 V	
Battery status/ other indicator lights	Lamp main unit: Three indicators for battery level, light time remaining, and PV charging. Torch main unit: One indicator for PV charging.	
PRODUCT DETAILS		
Manufacturer name	ovSolar	
Product name	MB3-200	
Product model / ID number	MB3-200	
Contact information	hczheng@ovsolar.com	
Website	ovsolar.com	
Dimensions (entire product in package)	20 x 19 x 11 cm	
Mass	1160 g	
SSS INFORMATION		
Specs sheet expiration date	April 30, 2024	
Revision	01.2023	