

M-KOPA 6 Solar Home System

M-KOPA 6
M-KOPA Solar

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

Verify online:

<https://data.verasol.org/products/sek/mk-mk6>

Valid until: August 31, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

2-year warranty covering manufacturing defects in the system, and a 1-year warranty for radio, torch and accessories, which are sold separately.

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			Used alone ^b	Used in combination ^c
	Appliance ^a	Description		
included in kit	Main lighting unit	4 light points on bright totaling 540 lumens and 4.5 W power	7 hours	5.1 hours
	sold separately	Torch	1 light point with rechargeable 1800 mAh Li-ion 3.7V battery on bright totaling x lumens and 1.3 W power	29 hours
Portable Radio		Portable radio with rechargeable 1800 mAh Li-ion 3.7V battery and 0.3 W power	95 hours	4.3 hours
Mobile phone		Basic phone (3.7 Wh battery)	9 full charge(s)	1.4 full charge(s)

Available daily electrical energy^c (Wh/day)

39

Performance measure	Brightness setting: high
Lighting full battery run time ^d for main unit (hours)	7
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	3800

^a Lights, torch, and radio were tested. Run times and power ratings for mobile phone comes 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
Bulb	3	2	High	120	110	82	6900	Wide	99%
Tubelight	1	2	High	180	130	83	6900	Wide	99%

^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 can be charged. Adapters are included.
4	Barrel jack	 6.4 V ports are used for light points
1	Proprietary 3-prong connector	6.4 V port to charge M-KOPA radio and torch (sold separately)

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, physical ingress protection.
Level of water protection	Main Lighting Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	14 watts

BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	4 x 26650 2P2S (main unit)
Battery capacity	7.1 Ah
Battery nominal voltage	6.4 V
Battery status indication	Digital screen on main unit

PRODUCT DETAILS	
Manufacturer name	M-KOPA Solar
Product name	M-KOPA 6 Solar Home System
Product model / ID number	M-KOPA 6
Contact information	phelix.okumu@m-kopa.com
Website	www.m-kopa.com
Dimensions (entire product in package)	36 x 40 x 12.5 cm
Mass	4595 g

SSS INFORMATION	
Specs sheet expiration date	August 31, 2022
Quality standards framework version	2020
Revision	2020.11