

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: February 28, 2023



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)	
	Appliance ^a	Description	Used alone ^b	Used in combination ^c
include d 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	5.7 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			February 28, 2023
Quality standards framework version			2020
Revision			2020.11