

# M-KOPA 5

M-KOPA Solar

Verify Online:

[www.lightingglobal.org/products/mk-mk5](http://www.lightingglobal.org/products/mk-mk5)

Results based on test procedures detailed in IEC 62257-9-5, ed. 3.0

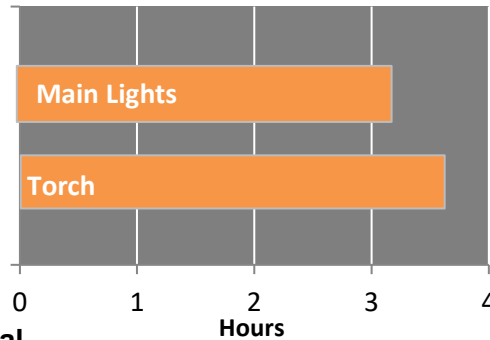
Valid Until: August 30, 2020

Lumens

Solar Run Time

490

Main Lights and Torch on High



Meets Lighting Global Quality Standards



Mobile Charging

5

Light Points

**PAYG** Pay-As-You-Go Enabled

## Warranty Information

A 2-year warranty covering manufacturing defects on solar panel, control unit and light points. The charging cables, radio and torch carry a 1-year warranty.

## Performance Details

Performance Measure	Brightness Setting**	
	Main Lights and Torch on High	Radio On
Full battery run time* (hours)	3.2 (Main Lights High) 4.3 (Torch on High)	23
Run time per day of solar charging* (hours)	3.2 (Main Lights High) 3.7 (Torch on High)	--
Total light output (lumens)	410 (Main Lights on High) 85 (Torch on High)	--
Total lighting service (lumen-hours / solar-day)	1600	--

\* 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.

\*\* Additional brightness settings (not tested): Main Lights on Normal, Torch on Normal, Torch on Low

## Lighting Details

Lamp type	LED
Description of light points	6 LEDs in a plastic housing in each of two indoor light points and the torch. All light points have a high and low setting.
Colour characteristics	CRI 82 (Main lights); 71 (torch) CCT "Daylight" (>5000 K) (Main lights and torch)
Distribution type	Wide (Main lights); Narrow (torch)
Lumen maintenance	100% of the original output remains after 2,000 hours run time

<b>Special Features</b>	
Mobile charging	Adapters included to charge mobile phone from battery
Radio	Rechargeable radio included
Pay-as-you-go	Product may be purchased through mobile-money payments in certain markets.
Ports	Includes 4 ports for light bulbs and a separate port for charging the torch.
<b>Durability</b>	
Overall durability and workmanship	Pass
Durability tests passed	Drop test, switch and connector cycling, strain relief test, physical ingress protection test. Water ingress protection for the main unit not tested; meant for indoor use only. Torch and radio met requirements for protection from occasional rain with a warning label.
<b>Solar Details</b>	
PV module type	Polycrystalline silicon
PV maximum power point	7.9 watts
<b>Battery Details</b>	
Battery replaceability	Not easily replaceable with common tools
Battery chemistry	LiFePO4 (main unit) Li-Ion (radio and torch)
Battery package type	2S1P 26650 Cells (main unit)
Battery capacity	Main Unit: 3400 mAh; Torch: 1800 mAh; Radio: 1700 mAh
Battery nominal voltage	Main Unit: 6.4 V; Torch: 3.2 V V
Appropriate battery protection circuit	Pass
<b>Product Details</b>	
Manufacturer name	M-KOPA Solar
Product name	M-KOPA 5
Product model / ID number	--
Contact information	manish.sharma@m-kopa.com
Website	www.m-kopa.com
<b>SSS Information</b>	
Specs sheet expiration date	August 30, 2020
Quality Standards Framework Version	2018
Revision	2018.04