Solar Medium Kit

M05

Ningbo Supsolar Electric Co., Ltd

Verify online:
https://data.verasol.org/products/sek/nss-smk

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

Valid until: January 31, 2024

Meets the Lighting Global Solar Home System Kit Quality Standards

Mobile charging

4 **Light point(s)**

Plug-and-play

WARRANTY INFORMATION

Two year warranty provided covering product failure from normal use.

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
VeraSol Certified?	**Included in Kit?**	**Appliance[a]**	**Description**	**Used alone[b]**	**Used in combination[c]**
yes	included	Main lighting unit	4 light points on high mode totaling 480 lumens and 3.8 W power	8.9 hours	4.3 hours
yes	included	Torch	64 lumens torch, Li-ion battery: 1.8 Ah, 3.7 V	17 hours	4.4 hours
yes	included	Lantern	78 lumens portable lantern, LiFePO4 battery: 0.6 Ah, 3.2 V	47 hours	4.4 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	7.7 full charge(s)	1.1 full charge(s)

Available daily electrical energy[c] (Wh/day)	33

Performance measure	**Brightness setting: High mode**
Lighting full battery run time[d] for main unit (hours)	8.9
Lighting full battery run time of the lantern powered by lantern battery (hours)	3.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3440

[a] Only included appliances were tested. Run times and power ratings for appliances sold separately come 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]**
LED lamp	4	2	High mode	120	130	83	6700	Wide	100%
Torch	1	2	High mode	64	48	85	6900	Narrow	100%
Lantern	1	2	High mode	78	160	74	15000	Omnidirectional	100%

[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 vieiwing 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			
2	**USB 2.0 type A**		Mobile phones can be charged. Adapters are included.
4	**Barrel jack**		6.85 V ports available to power light points.

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	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	Torch	Has protection from occasional rain; met IPX1
	Portable Lantern	Has protection from frequent rain; met IPX3

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	11 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	32700
Battery capacity	5.9 Ah
Battery nominal voltage	6.4 V
Battery status indication	Four green indicators show the charging status and battery status

PRODUCT DETAILS	
Manufacturer name	Ningbo Supsolar Electric Co., Ltd
Product name	Solar Medium Kit
Product model / ID number	M05
Contact information	rossi.ying@china-yiteng.com
Website	www.sup-solar.com
Dimensions (entire product in package)	36.5 x 24.5 x 12 cm
Mass	3320 g

SSS INFORMATION	
Specs sheet expiration date	January 31, 2024
Quality standards framework version	2021
Revision	2024.01