

L190 Task Light & Phone Charger

L190
Omnivoltaic Energy Solutions Co., Ltd.

Verify online:
<https://data.verasol.org/products/sek/omni-l190>
Valid until: November 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

PAYG

Pay-As-You-Go option available

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
				Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	1 light point on Super totaling 190 lumens and 1.3 W power	5.5 hours	2.2 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	1.4 full charge(s)	--
no	not included	Smartphone	Smart phone (5.7 Wh battery)	0.86 hours	0.56 hours

Available daily electrical energy ^e (Wh/day)	6.5
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Performance measure	Brightness setting: Super
Lighting full battery run time ^d for main unit (hours)	5.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1050

^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
L190	1	3	Super	190	140	68	5200	Wide	100%
			Normal	73	90	68	5100	-not tested- ⁱ	

^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	5 V port	Omnivoltaic customized port for mobile charging, adaptors 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	Main Unit	Has protection from occasional rain; met IPX1
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		2.4 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium-ion
Specific Li-ion battery chemistry		lithium nickel manganese cobalt oxide
Battery package type		18650
Battery capacity		2.5 Ah
Battery nominal voltage		3.6 V
Battery status/ other indicator lights		Three indicators for battery state of charge.
PRODUCT DETAILS		
Manufacturer name		Omnivoltaic Energy Solutions Co., Ltd.
Product name		L190 Task Light & Phone Charger
Product model / ID number		L190
Contact information		sales@omnivoltaic.com
Website		www.omnivoltaic.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		440 g
SSS INFORMATION		
Specs sheet expiration date		November 30, 2024
Revision		2023.05