

TB1206 Energy Box Kit

TB1206

Brand name: Telesol

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8

Verify online:

<https://data.verasol.org/products/sek/t-1206>

Valid until April 30, 2027



Meets the Requirements in IEC TS 62257-9-8:2020 for Size B kits



Mobile charging

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

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 on totaling 1240 lumens and 13 W power	4.9 hours	1.1 hours
no	not included	Television	Larger than 16" (diagonal) (18 W power consumption while in use)	3.6 hours	0.53 hours
no	not included	Fan	Fan (larger than 16" diameter, 28 W power consumption while in use)	2.3 hours	1.3 hours
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use	79 hours	0.81 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	6.8 full charge(s)	0.27 full charge(s)

Available daily electrical energy^c (Wh/day)

63

Performance measure	Brightness setting: on
Lighting full battery run time ^d for main unit (hours)	5.4
Total lighting service (lumen-hours / solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	6080

^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 name	Light output (lm)	Power consumption (W)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
3 W lamp	4	1	on	310	3.3	95	86	6700	Wide	98%

^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, radios, and other appliances can be charged. Adapters are not included.
4	Barrel jack		12 V ports available to power appliances and light points.
DURABILITY			
Overall durability and workmanship			Pass
Durability tests passed			Switch test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit	Has protection from occasional rain; met with appropriate warning label	
	PV module	Has protection from permanent outdoor exposure	
SOLAR DETAILS			
PV module type			Monocrystalline silicon
PV maximum power			22 W
PV rated power			20 W
PV open-circuit voltage (V _{OC})			22 V
MAIN UNIT BATTERY DETAILS			
Battery replaceability			Not easily replaceable with common tools.
Battery chemistry			Lithium iron phosphate
Battery package type			32700
Battery capacity			5.7 Ah
Rated Battery capacity			6 Ah
Battery nominal voltage			12.8 V
Battery status / other indicator lights			Five indicators for battery level, one indicator for solar
PRODUCT DETAILS			
Company name			Telesol Energy Company Limited
Brand Name			Telesol
Product name			TB1206 Energy Box Kit
Product model / ID number			TB1206
Contact information			info@telesolenergy.com
Website			https://www.telesolenergy.com/
Dimensions (entire product in package)			Multiple packages. Contact manufacturer for more information.
Mass			n/a
SSS INFORMATION			
Specs sheet expiration date			April 30, 2027
Revision			2025.04