

SHS2 DC Energy Box 120

SHS2
Tozzi Green

Verify online:

<https://data.verasol.org/products/sek/tg-shs2energy>

Valid until: August 31, 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 for Size B Kits



Mobile charging

PAYG

Pay-As-You-Go option available

5

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects for the entire system.

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	5 light points on ("On") totaling 3270 lumens and 26 W power	11 hours	6.9 hours
no	not included	Television	24" diagonal (9.7 W power consumption while in use)	38 hours	3.7 hours
no	not included	Fan	Medium-sized table fan (7.8 W power consumption while in use)	46 hours	9.3 hours
no	not included	Radio	Portable radio (Li-ion battery: 1.2 Ah, 3.7 V) with power consumption of 5.5 W while in use	37 hours	5.5 hours
no	not included	Mosquito lamp	A mosquito-killing lamp with power consumption of 10 W while in use	38 hours	n/a
no	not included	Water purifier	A water purifier with power consumption of 11.3 W while in use	34 hours	n/a
no	not included	Sewing machine	A sewing machine with power consumption of 34 W while in use	12 hours	n/a
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	n/a	n/a
no	not included	Smart phone	Smart phone (5.6 Wh battery)	39 full charge(s)	n/a
no	not included	Tablet	Tablet computer (11 Wh battery)	22 full charge(s)	n/a

Available daily electrical energy^e (Wh/day)

340

Performance measure

Brightness setting: On

Lighting full battery run time^d for main unit (hours)

11

Total lighting service (lumen-hours/solar-day)

36600

(includes the both main lighting unit and any lights with internal batteries included with the product)

^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 light bulb	5	1	On	650	130	83	3500	Wide	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 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

SPECIAL FEATURES		
PAYG		Pay-As-You-Go enabled
PORTS		
2	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters to USB ports are not included.
6	Barrel jack	 12 V ports available to charge devices and power appliances and light points.
3	Cigarette lighter	 Up to three cigarette lighter ports are available to use at the same time, however only by connecting a DC jack to cigarette lighter port adapter cable (one included in kit). These are used to power/ charge higher-current appliances.
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	Water ingress protection not tested, meant for indoor use only.
	LED light bulb	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure; met IPX4
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		110 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		4SP5 32700
Battery capacity		30 Ah
Battery nominal voltage		12.8 V
Battery status/ other indicator lights		An LCD display shows the main unit and battery information.
PRODUCT DETAILS		
Manufacturer name		Tozzi Green
Product name		SHS2 DC Energy Box 120
Product model / ID number		SHS2
Contact information		engineering@tozzigreen.com
Website		www.tozzigreen.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		n/a
SSS INFORMATION		
Specs sheet expiration date		July 31, 2024
Revision		2022.08