

Flex Max DC

Z580

Brand name: ZOLA Electric

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/zle-flexmdc>

Valid until: September 30, 2026



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



Mobile charging

PAYG

Pay-As-You-Go option available

5

Light point(s)



Plug-and-play



Note: VeraSol did not evaluate the Zola Flex Max AC kit, optional inverter mentioned in the user manual or inverter port on the main unit

WARRANTY INFORMATION

5-year warranty for the power box, PV module, lights, and light switches covering manufacturing defects in the system and a 1-year warranty for the accessories and other appliances.

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 full light totaling 2290 lumens and 17.1 W power	29 hours	17 hours
yes	included	Television	43" diagonal television (14 W power consumption while in use)	45 hours	9.2 hours
yes	included	Fan	16" diameter table fan (7.8 W power consumption while in use)	76 hours	23 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	100 full charge(s)	4.9 full charge(s)

Available daily electrical energy^c (Wh/day)

630

Brightness setting: full light

Performance measure	
Lighting full battery run time ^d for main unit (hours)	29
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	66400

^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)	Power consumption (W)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Bulb	4	2	full light	430	3	140	84	5200	Wide	100%
Tube	1	2	full light	570	5.1	110	83	5200	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

PORTS			
2	USB 2.0 type A		Mobile phones can be charged.
7	Barrel jack		Three 12 V ports available to power appliances and four 12 V ports available to power light points.
1	Cigarette lighter		Available to power appliances
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	
	Bulb	Water ingress protection not tested, meant for indoor use only.	
	Tube	Has protection from permanent outdoor exposure; met IPX5	
	Fan	Water ingress protection not tested, meant for indoor use only.	
	43" TV	Water ingress protection not tested, meant for indoor use only.	
SOLAR DETAILS			
PV module type		Polycrystalline silicon	
PV maximum power		110 watts	
PV rated power		120 watts	
PV nominal voltage		18.9 volts	
MAIN UNIT BATTERY DETAILS			
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.	
Battery chemistry		Lithium iron phosphate	
Battery package type		73mm x 195mm x 277mm	
Battery capacity		54 Ah	
Battery nominal voltage		12.8 V	
Battery status/ other indicator lights		Six indicators for battery level	
PRODUCT DETAILS			
Company name		ZOLA Electric International Ltd.	
Brand Name		ZOLA Electric	
Product name		Flex Max DC	
Product model / ID number		Z580	
Contact information		mukul.kundu@zolaelectric.com	
Website		zolaelectric.com	
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.	
Mass		n/a	
SSS INFORMATION			
Specs sheet expiration date		September 30, 2026	
Revision		2024.09	