## Flex 3e Solar Home System

Run time after a typical day of solar



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



Mobile charging



Light point(s) Plug-and-play



## PERFORMANCE DETAILS

A 2-year warranty covering manufacturing defects in the system, a 2-year warranty for the torch, and a 1-year warranty for the radio.

				char (assuming 5	ging kWh/m²/day)
VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	3 light points on high totalling 780 lumens and 7.5 W power	4.2 hours	3.2 hours
yes	included	Torch	30 lumen torch (LiFePO4 battery: 550 mAh, 3.3 V)	43 hours	3.8 hours
yes	included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V), with a power consumption of 0.5 W while in use	14 hours	2.4 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	3.3 full charge(s)	0.7 full charge(s)

Γ	Available daily electrical energy <sup>c</sup> (Wh/day)	29
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Performance measure	Brightness setting: 3 lights "on"
Lighting full battery run time <sup>d</sup> for main unit (hours)	5.4
Lighting full battery run time of the torch powered by torch battery (hours)	8.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3280

<sup>&</sup>lt;sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

<sup>&</sup>lt;sup>6</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</sup> 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	LIGHTING DETAILS									
Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Power consumption (W)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	сст <sup>в</sup>	Distribution type	Lumen maintenance <sup>h</sup>
LED lantern	3	2	high	260	2.5	100	87	6900	Wide	100%
Torch	1	1	on	30	0.25	100	81	6800	Narrow	100%

<sup>&</sup>lt;sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>&</sup>lt;sup>b</sup> Without any other loads used during the run time

f Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

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Percent of the original light output that remains after 2,000 hours of run time

Torch acts as wireless remote control to turn lamps on and off   PORTS     USB 2.0 type A	SPECIAL FEATURES					
Nobile phones, torches, radios can be charged. Adapters are included.	Remote	Torch acts as wireless r	mote control to turn lamps on and off			
DURADILITY   Pass   Pass   Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests			Mobile phones torches radios can be charged. Adapters are included			
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         LED lantern         Has protection from frequent rain; met IPX4           Level of water protection         PV modules         Has protection from occasional rain; met with appropriate warning label           SOLAR DETAILS           PV module type         Polycrystalline silicon           PV maximum power         11 watts (one 3 W and one 8 W PV module)           PV gene-riccut voltage (Voc)         11 watts (one 3 W and one 8 W PV module)           8 W PV open-clicut voltage (Voc)         7.48 volts           8 W PV open-clicut voltage (Voc)         13 volts           8 W PV open-clicut voltage (Voc)         7.34 volts           PO related power           Easily replaceable with common looks; however, the warranty is void if product is opened.           Battery prelaxed billy           Battery package type         26700           Battery package type         32 V           Battery status / other indicator lights         Four LEDS indicate battery state of charge. Three LED indicators show the state of charge for the torch.           Product Tables           Company name         Roofstar	<u> </u>		woone prones, torches, radios can be charged. Adapters are included.			
Switch lest, Drop test, Strain relief test, Physical ingress protection, PV durability tests   Level of water protection			Pass			
Level of water protection    Level of water protection   PV modules	<u> </u>		Suitab toot Drop toot Strain relief toot Dhypical ingrees protection DV durability toots			
Level of water protection  PV modules  Also protection from occasional rain; met with appropriate warning label  Form the proper search of the protection from occasional rain; met with appropriate warning label  FV mackinum power  PV mackinum power  PV rated power  PV rated power  PV open-circuit voltage (Voc)  PV open-circuit voltage (Voc)  PV also Salar Portun Voltage (Voc)  PV and Salar Sal	Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests			
Level of water protection Radio Has protection from occasional rain; met with appropriate warning label Radio Has protection from occasional rain; met with appropriate warning label  SOLAR DETAILS  PV module type PV maximum power PV rated power 11 watts (one 3 W and one 8 W PV module) PV rated power 11 watts (one 3 W and one 8 W PV module) PV poen-circuit voltage (Voc) 74.8 volts  3 W PV open-circuit voltage (Voc) 74.8 volts  3 W PV open-circuit voltage (Voc) 74.8 volts  Battery replaceability Easily replaceabile with common tools; however, the warranty is void if product is opened. Battery package type 26.00 Battery package type 27.00 Battery package type 27.00 Battery nominal voltage 27.00 Battery nominal voltage 27.00 Battery status / other indicator lights Pour LEDS indicate battery state of charge. Three LED indicators show the state of charge for the torch.  PRODUCT DETAILS  PRODUCT DETAILS  PRODUCT DETAILS  PRODUCT DETAILS  PRODUCT OBTAILS  PRODUCT DETAILS  PRODUCT DETAI		LED lantern	Has protection from frequent rain; met IPX4			
Torch   Has protection from occasional rain; met with appropriate warning label	Loyal of water protection	PV modules	Have protection from permanent outdoor exposure			
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PV module type         Polycrystalline silicon           PV maximum power         11 watts (one 3 W and one 8 W PV module)           PV rated power         11 watts (one 3 W and one 8 W PV module)           8 W PV open-circuit voltage (Voc)         7.48 volts           AUNUIT BATTERY DETAILS         Teasily replaceable with common tools; however, the warranty is void if product is opened.           Battery replaceablity         Easily replaceable with common tools; however, the warranty is void if product is opened.           Battery package type         26700           Battery capacity         12.6 Ah           Battery pominal voltage         3.2 V           Battery status / other indicator lights         5.2 or LEDs indicate battery state of charge. Three LED indicators show the state of charge for the torch.           PRODUCT DETAILS         Product make and the state of the state of charge. Three LED indicators show the state of charge for the torch.           Brand Name         Roofstar Technology Company Limited           Brand Name         Roofstar           Product name         Flex 3 es           Product name         Flex 3 es           Contact information         zelalem@roofstartechnology.com           Website         www.roofstartechnology.com           Dimensions (entire product in package)         3.6 x 4 y 1 x 12 cm           Mass         3.2 490		Radio	Has protection from occasional rain; met with appropriate warning label			
PV maximum power 11 watts (one 3 W and one 8 W PV module) PV rated power 11 watts 8 W PV open-circuit voltage (Voc) 7.48 volts 3 W PV open-circuit voltage (Voc) 7.34 volts  MAIN UNIT BATTERY DETAILS  Battery replaceability Easily replaceable with common tools; however, the warranty is void if product is opened.  Battery chemistry Eastley openistry 12.6 Ah  Battery package type 26700  Battery capacity 12.6 Ah  Battery status / other indicator lights Four LEDS indicate battery state of charge. Three LED indicators show the state of charge for the torch.  PRODUCT DETAILS  Company name Roofstar Technology Company Limited Brand Name Roofstar Product name Fiex 3e Solar Home System Product model / ID number Fiex 3e  Contact information 2elalem@roofstartechnology.com  Website Www.roofstartechnology.com  Dimensions (entire product in package) 3.4 x 19 x 12 cm  Mass 2490 g  SSIFFORMATION  Specs sheet expiration date Mare A onts  May 31, 2026	SOLAR DETAILS					
PV rated power 8 W PV open-circuit voltage (Voc) 7 48 volts 3 W PV open-circuit voltage (Voc) 7 7,34 volts  MAIN UNIT BATTERY DETAILS  Battery replaceability Easily replaceable with common tools; however, the warranty is void if product is opened.  Battery package type 26700  Battery capacity 12.6 Ah  Battery capacity 12.6 Ah  Battery sattus / other indicator lights Four LEDS indicate battery state of charge. Three LED indicators show the state of charge for the torch.  PRODUCT DETAILS  Company name Roofstar Technology Company Limited Product name Product name Fiex 3e Solar Home System  Product model / ID number Fiex 3e  Contact information Website www.roofstarechnology.com Website Mass 2490 g  SSIFFORMATION Specs sheet expiration date  May 31, 2026	PV module type		Polycrystalline silicon			
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3 W PV open-circuit voltage (Voc) 7.34 volts  MAIN UNIT BATTERY DETAILS  Battery replaceability Battery package type Battery package type Battery capacity Battery onemial voltage Battery oninal voltage Battery status / other indicator lights Battery status / other indicator lights Bround Say Solar Home System Product name Product mame Product model / ID number Fiex 3 e Contact information Website Dimensions (entire product in package) May 31, 2026  SINFORMATION  May 31, 2026  Rasily replaceable with common tools; however, the warranty is void if product is opened. Basily replaceable with common tools; however, the warranty is void if product is opened. Battery shows a common tools; however, the warranty is void if product is opened. Battery shows a visit in product is opened. Battery package type 26700 26	PV rated power		11 watts			
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Revision 2024 10	Specs sheet expiration date		May 31, 2026			
2027.10	Revision		2024.10			