

Modular Solar Home System-Ignite 250

Ignite 250 (version with 4x lamp 400)

Fosera

Verify online:

<https://data.verasol.org/products/sek/fs-ig250>

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

Valid until: June 30, 2025



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



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects in the system and a 1-year warranty for the TV.

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	4 LED lamps on high totalling 1540 lm and 12 W	19 hours	9.4 hours
yes	included	Television	23.6 " diagonal screen (9.1 W)	33 hours	5.8 hours
no	not included	Radio	Portable, with a power consumption of 2.5 W while charging and 3.7V battery	320 hours	10 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	32 full charge(s)	3.4 full charge(s)
no	not included	Fan	stand fan 16" blade diameter (8.5 W)	35 hours	14 hours

Available daily electrical energy ^c (Wh/day)	320
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Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	19
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	29300

^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 ^a (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Lamp 400	4	2	Normal	390	120	85	5200	Wide	96%

^a 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 can be charged. Adapters are included.
5	Barrel jack	 12 V ports available to power light points.
2	Other	 One high power and one configurable 12 V barrel port available to power appliances.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection
Level of water protection	Main Unit and lights	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	TV remote control	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		140 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		26650
Battery capacity		19 Ah
Battery nominal voltage		12.8 V
Battery status/ other indicator lights		Six indicators for battery state of charge
PRODUCT DETAILS		
Manufacturer name		Fosera
Product name		Modular Solar Home System-Ignite 250
Product model / ID number		Ignite 250 (version with 4x lamp 400)
Contact information		info@fosera.com
Website		www.fosera.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		Multiple packages. Contact manufacturer for more information. g
SSS INFORMATION		
Specs sheet expiration date		June 30, 2025
Revision		2023.12