Modular Solar Home System-Ignite250

Ignite 250
Fosera Group

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

Verify online:
https://data.verasol.org/products/sek/fs-ig250
Valid until: June 30, 2023

✔ **Meets the Lighting Global Solar Home System Kit Quality Standards**

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

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[e] (lm/W)	CRI[f]	CCT[g]	Distribution type	Lumen maintenance[h]
Lamp 400	4	2	High	390	120	85	5200	Wide	96%

[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. 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
Battery package type	26650
Battery capacity	19 Ah
Battery nominal voltage	12.8 V
Battery status indication	Six indicators for battery state of charge

MARKS AND CERTIFICATIONS

Factory certification	ISO 9001, ISO 14001, ISO 45001
Safety certification	--
Other certification	CE

PRODUCT DETAILS

Manufacturer name	Fosera Group
Product name	Modular Solar Home System-Ignite250
Product model / ID number	Ignite 250
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.

SSS INFORMATION

Specs sheet expiration date	June 30, 2023
Quality standards framework version	2021
Revision	2021.06