SOLAR KIT

Produce and consume your own energy

Description

The PV SOLAR KIT developed by Zigor is a system to enjoy all the advantages of electricity in a clean and renewable manner, without being connected to grid.
In addition to providing an independent source of power and high energy saving, the only cost of these systems is the initial investment.

The PV SOLAR KIT is a system designed for isolated type installations and consists of the following elements:

> PV modules: transforms solar radiation into electricity.
> Venus & Saturno regulator: controls and stabilises energy production from solar panels to be stored in the battery, and avoids overloading.
> Battery: accumulates the energy collected by the solar panels.
> Jupiter & HIS inverters range : transforms DC from the batteries into AC at 230 V.

Solar kit components

Features

> Designed for three different consumption levels:
  - Occasional consumption: for consumptions one day a week or a few hours a day
  - Weekend consumption: for consumption during three days a week or about eight hours a day
  - Permanent consumption: for continuous consumption
> Energy ranges from 100wh/day to more than 10Kwh/day
> Load can be in AC (230Vac) or DC
> Low maintenance
> Easy modular installation
> Ecological
> Guaranteed electricity supply
> Silent and long-lasting power
> Does not contaminate and respects nature

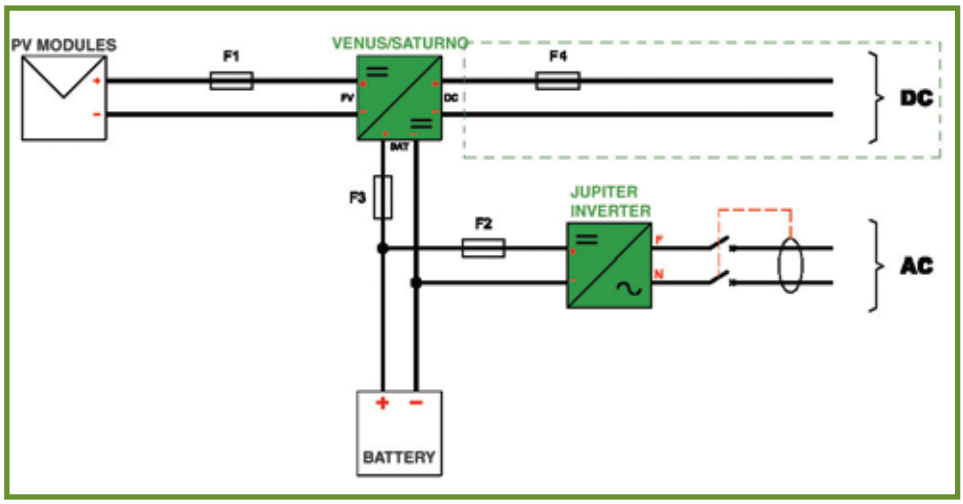
Aplications

> Public lighting
> Rural electrification
> Signposting, traffic
> Pumping systems
> Relay stations
> Telecommunications and remote installations

on-grid solar plants | mid voltage solar plants | hybrid generation | energy saving | telecom back up | wind energy

> Solar kit standard

The Zigor Solar Kit standard has been designed for connection in accordance with the following main layout diagram.



This layout diagram is recommended by Zigor for its standard Kits.

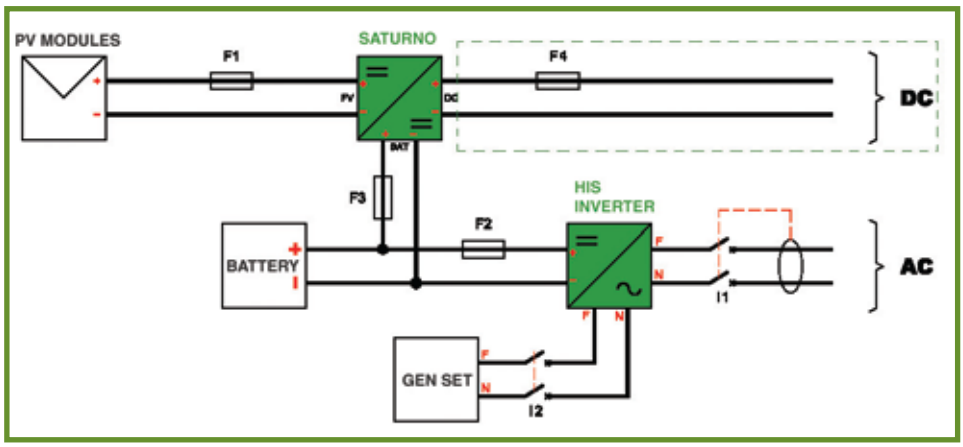
The regulator does not have a DC output, and therefore neither the F4 fuse nor the cabling are required.

The Kit only includes the following main elements:
> Panels and structures
> Regulator
> Battery
> Inverter

In order to connect the panels of the different Kits correctly, please real carefully the user manual.

> Solar kit advanced

The Zigor Solar Kit advanced has been designed for connection in accordance with the following main layout diagram.



This layout diagram is recommended by Zigor for its advanced Kits.

The regulator does not have a DC output, and therefore neither the F4 fuse nor the cabling are required.

The Kit only includes the following main elements:
> Panels and structures
> Regulator
> Battery
> Inverter

In order to connect the panels of the different Kits correctly, please real carefully the user manual.

> Standard solar kit range

Estimated Solar Radiation: 2500 Wh/m² year (2,5 PSH)

Kit code	Description	Consumption 3 days	Max. energy	Wh/day	Units
020099	SOLAR KIT STD 350W 12V100 AC				
	MONOCRYSTALLINE SOLAR MODULE 60W	3 Lamps 11W (2hours/u)	Weekend (3 days) winter =>	350	1
	SOLAR MODULE SUPPORT + SCREWS	1 Radio 5W (3,5hours)	Weekend (3 days) summer =>	600	1
	VENUS 12V 8		Winter continuous (3 days back-up) =>	120	1
	VRLA BATTERY 12LDA55		Summer continuous (3 days back-up) =>	300	2
	JUPITER 12V 350				1
020092	SOLAR KIT STD 700W 12V200 AC				
	MONOCRYSTALLINE SOLAR MODULE 110W	4 Lamps 11W (2hours/u)	Weekend (3 days) winter =>	675	1
	SOLAR MODULE SUPPORT + SCREWS	1 Radio 5W (4hours)	Weekend (3 days) summer =>	1400	1
	VENUS 24V 20	1 TV 50W (2,5hours)	Winter continuous (c back-up) =>	250	1
	VRLA BATTERY 6LDA200	1 Mobile	Summer continuous (3 days back-up) =>	600	2
	JUPITER 12V 700				1
020086	SOLAR KIT STD 1000W 24V400 AC				
	MONOCRYSTALLINE SOLAR MODULE 110W	4 Lamps 11W (2hours/u)	Weekend (3 days) winter =>	1250	2
	SOLAR MODULE SUPPORT + SCREWS	1 Radio 5W (3,5hours)	Weekend (3 days) summer =>	2700	2
	VENUS 24V 20	1 TV 50W (2,5hours)	Winter continuous (3 days back-up) =>	550	1
	VRLA BATTERY 6LDA200	1 Mobile	Summer continuous (3 days back-up) =>	1200	4
	JUPITER 24V 1000				1
020085	SOLAR KIT STD 2000W 24V400 AC				
	MONOCRYSTALLINE SOLAR MODULE 110W	2 Lamps 20W (2hours/u)	Weekend (3 days) winter =>	2500	4
	SOLAR MODULE SUPPORT + SCREWS	6 Lamps 11W (2hours/u)	Weekend (3 days) summer =>	4800	4
	VENUS 24V 20	1 Radio 5W (3hours)	Winter continuous (3 days back-up) =>	1100	1
	VRLA BATTERY 6LDA200	1 TV 50W (3hours)	Summer continuous (3 days back-up) =>	2400	8
	JUPITER 24V 2000	1 Computer 100W (2hours) 1 Mobile			1
020083	SOLAR KIT STD 2000W 48V400 AC				
	MONOCRYSTALLINE SOLAR MODULE 110W	2 Lamps 20W (2hours/u)	Weekend (3 days) winter =>	4700	8
	SOLAR MODULE SUPPORT + SCREWS	6 Lamps 11W (2hours/u)	Weekend (3 days) summer =>	9500	8
	SATURNO MPPT 48V 60	1 Radio 5W (3hours)	Winter continuous (3 days back-up) =>	2200	1
	VRLA BATTERY 6LDA200	1 TV 50W (3hours)	Summer continuous (3 days back-up) =>	4800	16
	JUPITER 48V 2000	1 Computer 100W (2hours) 1 Refrigerator 75W 1 Washing machine cycle 300W 1 Mobile			1

These specifications may be changed without notice.

> Advanced solar kit range

Estimated Solar Radiation: 2500 Wh/m² year (2,5 PSH)

Kit code	Description	Consumption 3 days	Max. energy	Wh/day	Units
020091	SOLAR KIT ADV 800W 12V200 AC				
	MONOCRYSTALLINE SOLAR MODULE 60W	4 Lamps 11W (2hours/u)	Weekend (3 days) winter =>	675	1
	SOLAR MODULE SUPPORT + SCREWS	1 Radio 5W (4hours)	Weekend (3 days) summer =>	1400	1
	SATURNO MPPT 24V 30	1 TV 50W (2,5hours)	Winter continuous (3 days back-up) =>	250	1
	VRLA BATTERY 6LDA200	1 Mobile	Summer continuous (3 days back-up) =>	600	2
	HIS INVERTER 1,2 12V/1,2KVA				1
020089	SOLAR KIT ADV 1600W 24V200 AC				
	MONOCRYSTALLINE SOLAR MODULE 110W	4 Lamps 11W (2hours/u)	Weekend (3 days) winter =>	1250	2
	SOLAR MODULE SUPPORT + SCREWS	1 Radio 5W (3,5hours)	Weekend (3 days) summer =>	2700	2
	SATURNO MPPT 24V 30	1 TV 50W (2,5hours)	Winter continuous (3 days back-up) =>	550	1
	VRLA BATTERY 6LDA200	1 Mobile	Summer continuous (3 days back-up) =>	1200	4
	HIS INVERTER 2,4 24V/2,4KVA				1
020088	SOLAR KIT ADV 2400W 24V400 AC				
	MONOCRYSTALLINE SOLAR MODULE 110W	2 Lamps 20W (2hours/u)	Weekend (3 days) winter =>	2500	4
	SOLAR MODULE SUPPORT + SCREWS	6 Lamps 11W (2hours/u)	Weekend (3 days) summer =>	4800	4
	SATURNO MPPT 24V 30	1 Radio 5W (3hours)	Winter continuous (3 days back-up) =>	1100	1
	VRLA BATTERY 6LDA200	1 TV 50W (3hours)	Summer continuous (3 days back-up) =>	2400	8
	HIS INVERTER 3,6 24V/3,6KVA	1 Computer 100W (2hours) 1 Mobile			1
020087	SOLAR KIT ADV 4000W 24V600 AC				
	MONOCRYSTALLINE SOLAR MODULE 110W	2 Lamps 20W (2hours/u)	Weekend (3 days) winter =>	3800	6
	SOLAR MODULE SUPPORT + SCREWS	6 Lamps 11W (2hours/u)	Weekend (3 days) summer =>	7200	6
	SATURNO MPPT 24V 30	1 Radio 5W (3hours)	Winter continuous (3 days back-up) =>	1650	1
	VRLA BATTERY 6LDA200	1 TV 50W (3hours)	Summer continuous (3 days back-up) =>	3600	12
	HIS INVERTER 5 24V/5KVA	1 Computer 100W (2hours) 1 Mobile			1
020084	SOLAR KIT ADV 6000W 48V600 AC				
	MONOCRYSTALLINE SOLAR MODULE 175W E45	2 Lamps 20W (2hours/u)	Weekend (3 days) winter =>	11000	12
	SOLAR MODULE SUPPORT + SCREWS	6 Lamps 11W (2hours/u)	Weekend (3 days) summer =>	19000	12
	SATURNO MPPT 48V 60	1 Radio 5W (3hours)	Winter continuous (3 days back-up) =>	5200	1
	VRLA BATTERY 2SCA 600	1 TV 50W (3hours)	Summer continuous (3 days back-up) =>	11500	24
	HIS INVERTER 6 48V/6KVA	1 Computer 100W (2hours) 1 Refrigerator 75W 1 Washing machine cycle 300W 1 Mobile			1

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