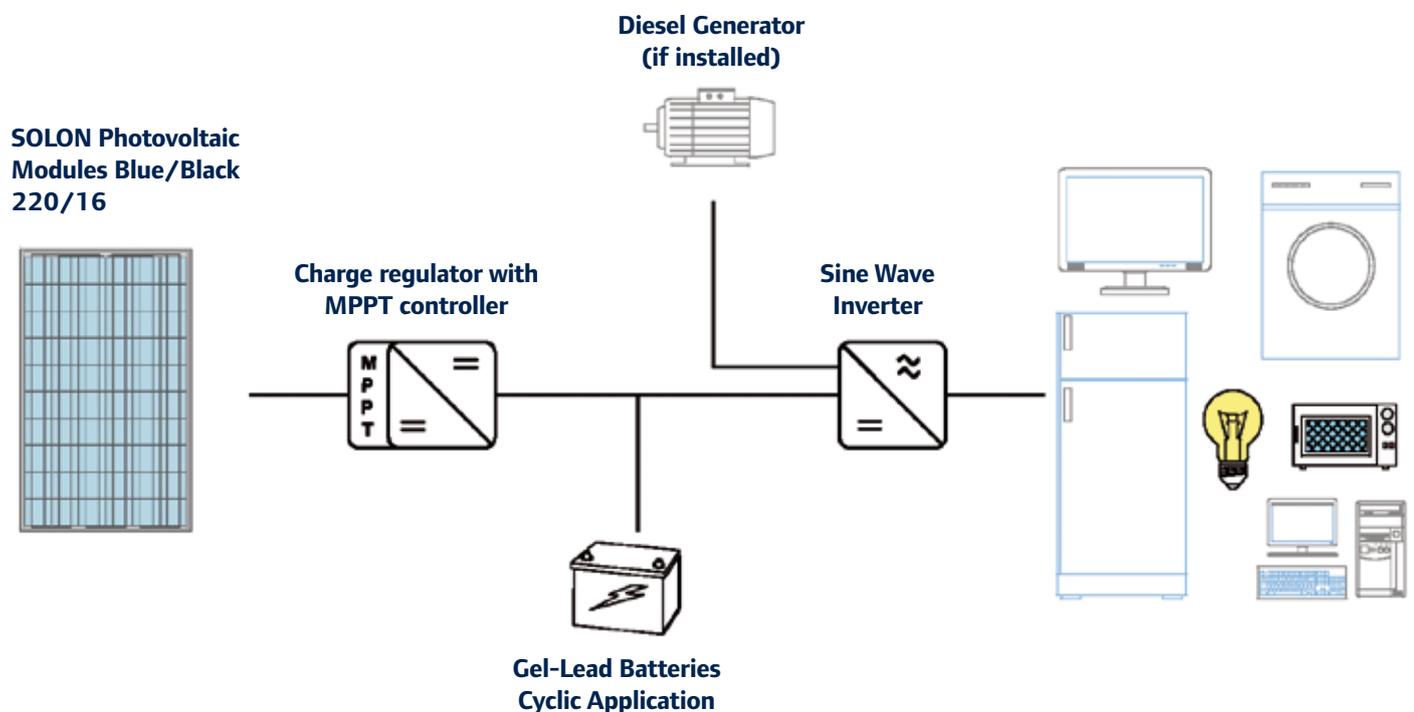




SOLON SOLkit stand-alone: Island Kit



- Electrification of areas without electrical power grid
- Replaces or used in combination with diesel generators to reduce management costs
- Broad range of application: meets residential to small workshop needs

SOLON SOLkit stand-alone Island version: Easy-to-install, high performing, pre-sized kit.

It is available in 5 different power sizes in order to meet all possible energy requirements.

The kits are suitable for continuous loads of 500W to 6kW, with several days of autonomy even in the absence of sun.

The charge regulators have MPPT technology for tracking the maximum power point. High utilization of the solar source, at all times of the year and in all temperature conditions, ensures the best, and very fast, charging of batteries.

Composition of the Island Kit

	KIT ISL 500	KIT ISL 1000	KIT ISL 2000	KIT ISL 3000	KIT ISL 6000
Inverter Continuous Power [W]	800	1000	2000	3000	6000
Total Photovoltaic Power Output [Wp]*	500	1000	2000	3000	6000
Energy storage capacity [kWh]**	1,2	2,4	4,8	7,2	14,4
Use examples	Small domestic Mobile home	Domestic	Large domestic	Large domestic Small commercial premises	Commercial premises Workshop
Hours of autonomy at a quarter of the continuous load	Over 4h	Over 6h	Over 6h	Over 6h	Over 6h

* calculated with 250Wp modules

** energy stored in the batteries in C100 (100 hours constant discharge cycle)

Photovoltaic modules

	KIT ISL 500	KIT ISL 1000	KIT ISL 2000	KIT ISL 3000	KIT ISL 6000
PV module type	Solon Blue/Black 220/16				
Module power	240-245-250	240-245-250	240-245-250	240-245-250	240-245-250
Number of modules	2	4	8	12	24

Charge regulator

	KIT ISL 500	KIT ISL 1000	KIT ISL 2000	KIT ISL 3000	KIT ISL 6000
Charge regulator type	Photovoltaic PWM	Photovoltaic MPPT	Photovoltaic MPPT	Photovoltaic MPPT	Photovoltaic MPPT
Maximum current [A]	50	30	30	30	30
Maximum voltage [V]	125	150	150	150	150
Working voltage [V]	12	24	24	24	48
N° of charge regulators	1 (inside the inverter)	1	2	3	4
Module configuration for each charge regulator	2 modules in parallel	2 modules in series for input	2 modules in series for input	2 modules in series for input	3 modules in series for input
Dimensions bxhxd [mm]	/	178x283x83	178x283x83	178x283x83	178x283x83
Weight [kg]	/	2	2	2	2
Mechanical impact protection	/	IP 20	IP 20	IP 20	IP 20

Inverter

	KIT ISL 500	KIT ISL 1000	KIT ISL 2000	KIT ISL 3000	KIT ISL 6000
Inverter Type	Pure Sine Wave with Charge	Photovoltaic PWM	Photovoltaic PWM	Photovoltaic PWM	Photovoltaic PWM
Rated power [VA]	1000	1000	2000	3000	6000
Continuous power [W]	800	1000	2000	3000	6000
Overload capacity (10s) [VA]	1600	3000	6000	9000	18000
Rated input voltage [Vdc]	12	24	24	24	48
Rated output voltage and frequency [Vac/Hz]*	230/50	230/50	230/50	230/50	230/50
Possibility of connecting a diesel generator	YES	YES	YES	YES	YES
Dimensions bxhxp [mm]	240x316x95	221x181x445	221x181x445	221x181x445	755x288x319
Weight [kg]	5	16	19	24	35
Mechanical impact protection	IP 20	IP 20	IP 20	IP 20	IP 20

* on request in 110/60 Vac/Hz version

Batteries

	KIT ISL 500	KIT ISL 1000	KIT ISL 2000	KIT ISL 3000	KIT ISL 6000
Battery type	Gel - lead cyclic application	Gel - lead cyclic application	Gel - lead cyclic application	Gel - lead cyclic application	Gel - lead cyclic application
Rated voltage [Vdc]	12	12	12	12	12
Capacity C100 [Ah]	100	100	100	100	100
N° of batteries	1	2	4	6	12
Storage configuration	1 parallel	1 system in parallel of 2 batteries in series	2 system in parallel of 2 batteries in series	3 system in parallel of 2 batteries in series	3 system in parallel of 4 batteries in series
Dimensions bxhxp [mm]	513x223x223	513x223x223	513x223x223	513x223x223	513x223x223
Weight [kg]	36.5	36.5	36.5	36.5	36.5