

SP PLUS

BY  SELECTRONIC

ENERGY CENTRE

To simplify the process of installing an SP PRO in either a Battery Backup or Grid connect solar system with battery backup, Selectronic can now provide an easy, simple and cost effective solution.

The SP PLUS Energy Centre includes everything you need except for your Solar Panels and associated mounting frames. Each Selectronic Energy Centre has been tested by Selectronic to ensure all components are compatible and can be installed to local standards in a quick and efficient manner, saving installers time and money.

As an added bonus each SP PRO inverter sold as part of an SP PLUS Energy Centre will receive an additional 12 months warranty.



Each Energy Centre includes:

- » SP PRO Grid Connect battery backup inverter
- » AGM maintenance free batteries
- » Battery enclosure
- » Compatible with AC Coupling module
- » Pre terminated interconnects
- » Battery fuse
- » DC distribution panel
- » SP PRO configuration file
- » 50m CAT 5 cable

Energy Centres with DC solar option also include:

- » 80A MPPT Solar controller with temperature compensation
- » Additional solar fuse

Part No.	Inverter	Maximum continuous backup power	Backup time* with 500 watt load	Backup time* with 1kW load	Solar Options	
					Max. AC Coupled	Max. DC Coupled
SPPSB 240	SPMC 240	3.0kW	2.5hrs	1.25hrs	3.0kW	3.0kW
SPPMB 240	SPMC 240	3.0kW	5hrs	2.5hrs	3.0kW	3.0kW
SPPSB 481	SPMC 481	5.0kW	5hrs	2.5hrs	5.0kW	5.0kW
SPPMB 481	SPMC 481	5.0kW	9hrs	4.5hrs	5.0kW	5.0kW

* Backup time is calculated at night time, if the grid fails during sunlight hours then the backup time can be significantly extended. Battery discharge is to 40% State of Charge.

	Dimensions W x H x D mm	Weight	Comments
Battery enclosure	750 x 800 x 450	50kg	Can be mounted outside on any solid surface or 2 x 450 mm square concrete pavers
DC distribution panel	410 x 750 x 75	15kg	Must be mounted indoors
SP PRO Inverter	345 x 545 x 215	29-35kg	Can mount under an eave
DC Coupled Solar Input range	150V DC open circuit		MPPT range 60V – 140V DC
Battery type	Ritar AGM sealed, maintenance free.		
Warranty	– Inverter	6 years standard, 8 years when installed by an SP PRO accredited installer	
	– Batteries	3 years	
	– Solar Controller	2 years	
	– Balance of system	2 years	

How much backup power do I need?

It is possible to run your entire home or office from an SP PLUS Energy Centre during a grid outage, however to keep system costs down you may want to consider just running essential items during an outage. The system can be configured to automatically disconnect circuits as required or this can be done manually. Use the table below as a guide to how much power you may need in a grid outage.

Appliance	Average Consumption (Watts)
Cordless telephone	10
Fridge freezer 300-500 litre frost free	56 – 76*
Freezer 200-400 litre manual defrost	56 – 76*
Plasma TV 34" to 50"	250 – 400
LCD TV 34" to 50"	150 – 250
Laptop computer	50
Desktop computer	200 – 300
Domestic Water Pump	100 – 150^
Fluorescent tube 4 foot	60
Compact Fluorescent Light	7 – 15
Air conditioning – Inverter	700 – 1000 [¶]
Air conditioning – Evaporative	400
Pool pump	700 – 1200
Electric oven	2400 – 800
Microwave Oven	130 [#]

* Based on running 24 minutes per hour

¶ Based on maintain temperature

^ Based on running 12 minutes per hour

Based on operating 6 minutes per hour

The above table is provided as a guide only, for more accurate assessment you will need to check the appliance's rating label.

Through a policy of continual improvement specifications may differ from this brochure.
All ratings are at @ 25°C and nominal battery voltage unless otherwise stated.
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