




# myGrid

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

The myGrid Energy Centre includes everything you need except for your Solar Panels and associated mounting frames. Each Selectronic myGrid 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.

Includes integrated battery circuit breaker with emergency shutdown option.

Quality German batteries included in each kit.

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

MG0481A shown above

PART NO	INVERTER	DC VOLTS	USUABLE STORAGE	MAX CONTINUOUS POWER	MAX PV MANAGED* / OTHER	BACK UP TIME <sup>^</sup>	NO. OF BATTERY BOXES <sup>#</sup>
MG0240A	SPMC 240	24V	5 kWh	3.0 kW	6.0 / 3.0 kW	10 Hours	1
MG0240B	SPMC 240	24V	10 kWh	3.0 kW	6.0 / 3.0 kW	20 Hours	2
MG0241A	SPMC 241	24V	5 kWh	4.5 kW	9.0 / 4.5 kW	10 Hours	1
MG0241B	SPMC 241	24V	10 kWh	4.5 kW	9.0 / 4.5 kW	20 Hours	2
MG0481A	SPMC 481	48V	10 kWh	5.0 kW	10.0 / 5.0 kW	20 Hours	2
MG0481B	SPMC 481	48V	20 kWh	5.0 kW	10.0 / 5.0 kW	40 Hours	4
MG0482A	SPMC 482	48V	10 kWh	7.5 kW	15.0 / 7.5 kW	20 Hours	2
MG0482B	SPMC 482	48V	20 kWh	7.5 kW	15.0 / 7.5 kW	40 Hours	4
MG1202A	SPLC 1202	120V	25 kWh	20.0 kW	30.0 / 20 kW	50 Hours	5
MG1202B	SPLC 1202	120V	50 kWh	20.0 kW	30.0 / 20 kW	100 Hours	10

<sup>^</sup> Based on 500 watt load

\* When AC Coupled with KACO inverters

<sup>#</sup> 505 x 800 x 475 mm (H x W x D) per battery box, stackable

+61 3 9727 6600  
www.selectronic.com.au

# SP PRO Specifications

SP PRO MODEL	SPMC240	SPMC241	SPMC481	SPMC482	SPLC1202
Continuous Ratings at 25 °C	3 kW / 125 A	4.5 kW / 188 A	5 kW / 104 A	7.5 kW / 156A	20 kW / 183A
<b>Short Term Ratings @ 25 °C</b>					
30 seconds	7.5 kW	10.5 kW	12 kW	18 kW	44 kW
1 minute	5.4 kW	7.6 kW	8.7 kW	13 kW	30 kW
60 minutes	3.2 kW	4.7 kW	5.3 kW	8 kW	24 kW
Nominal battery voltage	24 V	24 V	48 V	48 V	120 V
DC input voltage range (V d.c.)	20 - 34	20 - 34	40 - 68	40 - 68	100 - 170
DC consumption: idle	8 W				
Peak Efficiency – all modes	95%	95%	96%	96%	97.2%
EU efficiency (average 5, 10, 20, 30, 50 & 100%)	92%	92%	93%	92.5%	95.6%
<b>AC OUTPUT standalone</b>					
Setting range and accuracy	210 to 240 V +/- 0.5%				
Regulation (related to 40 °C ratings)	<2.25% droop @ 0-100% (load power)				<0.2% @ 100%
	<3.5% @ 150%, <5% @ 200% (load power)				<1.0% @ 150%
	<10% @ 300% (load rating)				<1.5% @ 200%
THD	<3% @ 0-200% rated load				
Frequency	50 or 60 Hz +/-0.005% standalone				
<b>AC SOURCE</b>					
Nominal voltage	210 to 240 V a.c.				
Tolerance on nominal voltage	programmable: - 1% to -15%; + 1 to +10%				
Nominal input frequency	50/60Hz				
Tolerance on nominal frequency	programmable +/- 1% to 10%				
Generator can be started by:	battery SoC, DC voltage, battery load, unit temperature, time & remote control				
<b>TRANSFER CONTACTOR</b>					
AC transfer current capacity (internal)	63 A				125 A
AC transfer current capacity (external)	Control provided for an external higher rated contactor				
Max AC input source, (generator) W	15 kW				30 kW
Max total output to Load, AC source + inverter	15 kW				30 kW
AC transfer time	"no-break" (< 1/2 cycle)				
Disconnect time if grid (source) fails	<= 30 ms				
DC Circuit Breakers	-				2 pole 250A
Operating Temperature Range	-10 °C to 60 °C				
Storage Temperature Range	-25 °C to 70 °C				
Max Grid Feed capacity	rated output				
Battery temperature sensor	Yes				
Mid point battery voltage sensing	Yes				
Inverter display	22 x LEDs with auto adjusting intensity				
	display indicates, charger status, useable battery capacity remaining, alarms, AC status				
	AC status LEDs powered from AC voltage generator control button, output mode button, alarm silence button				
Digital Inputs	4 off, 12V to 60V True, < 3V False				
Shunt Inputs	Two user definable: Suitable for current shunts rated at 25mV - 100mV and 25 A - 500 A				
Analogue Inputs	2 general purpose logged 0-60V				No
Relay Outputs	4 off: 60 V, 500 mA				
Digital outputs	3 off: 60 V, 5 mA				
Communication port 1	USB (slave) or RS232 or 3-phase sync (adjustable baud rate of up to 57,600)				
Communication port 2	RS485 or RS232 (adjustable baud rate of up to 57600)				
AC Coupling	with control of KACO inverters via RS485				
PWM modulation frequency	20 kHz				
Memory retention of settings	permanent				
Memory retention of logged data	permanent				
SP LINK configuration and monitoring software	standard				
Dimensions h x w x d (mm) (d = front to mounting surface)	690 x 375 x 220				870 x 540 x 290
Mass (unpacked with wall mount)	35 kg	39 kg	40 kg	42 kg	115 kg
<b>STANDARDS</b>					
Safety (UPS)	IEC 62040-1-1:2002 with CB certificates				
EMC (Domestic limits)	EN 61000.6.3:2007				No
EMC (Industrial limits)	-				EN 61000.6.4:2007
Grid Connect	AS4777.2:2005, AS4777.3:2005				
Ctick	Yes				
Protection	IP43				
Warranty	7 years *				

\* when installed by a Selectronic accredited installer

+61 3 9727 6600  
www.selectronic.com.au