

SP PRO Specs

SP PRO INVERTER MODEL SPMC240 SPMC241 SPMC481 SPMC482 SPMC1201 SPLC1202

Continuous Power and Charge Current at nominal DC & AC voltage @ 25 °C	3 kW / 125 A		4.5 kW / 188 A		5 kW / 104 A		7.5 kW / 156 A		7.5 kW / 63 A		20 kW / 167 A	
Continuous Ratings at 25 °C	kW	A	kW	A	kW	A	kW	A	kW	A	kW	A
Short Term Ratings @ 25 °C												
30 seconds	7.5 kW	10.5 kW	12 kW	18 kW	18 kW	18 kW	18 kW	18 kW	18 kW	18 kW	18 kW	44 kW
1 minute	5.4 kW	7.6 kW	8.7 kW	13 kW	13 kW	13 kW	13 kW	13 kW	13 kW	13 kW	13 kW	30 kW
30 minute												
60 minutes	3.2 kW	4.7 kW	5.3 kW	8 kW	8 kW	8 kW	8 kW	8 kW	8 kW	8 kW	8 kW	24 kW
Nominal battery voltage	24 V	24 V	48 V	48 V	48 V	48 V	48 V	48 V	48 V	48 V	48 V	120 V
DC input voltage range (V d.c.)	20 - 34	20 - 34	40 - 68	40 - 68	40 - 68	40 - 68	40 - 68	40 - 68	40 - 68	40 - 68	40 - 68	100 - 170
DC consumption: idle	8 W											
Peak Efficiency – all modes	95%	95%	96%	96%	96%	96%	96%	96%	96%	96%	96%	97.2%
20% load	93%	93%	94%	94%	94%	94%	94%	94%	94%	94%	94%	96.8%
30% load	95%	95%	96%	96%	96%	96%	96%	96%	96%	96%	96%	97.2%
50% load	94%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	97.1%
100% load	90%	91%	93%	93%	93%	93%	93%	93%	93%	93%	93%	95.5%
EU efficiency (average 5, 10, 20, 30, 50 100%)	92%	92%	93%	93%	93%	93%	93%	93%	93%	93%	93%	95.6%z
AC OUTPUT standalone												
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											
AC SOURCE												
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 8 remote control											
TRANSFER CONTACTOR												
AC transfer current capacity (internal)	63 A										125 A	
AC transfer current capacity (external)	Contactor 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											
	22 x LEDs with auto adjusting intensity											
	display indicates, charger status, useable battery capacity remaining											
	alarms, AC status											
Inverter display	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 57,600)											
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 (l 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	42 kg	42 kg	42 kg	42 kg	42 kg	42 kg	42 kg	115 kg
STANDARDS												
Safety (LPS)	IEC 62040-1-1:2002 / AS 62040-1-1:2003 with CB certificates											
EMC (Domestic limits)	EN 61000.6.3:2007										No	
EMC (Industrial limits)	-										EN 61000.6.4:2007	
Grid Connect	AS4777											
Ctick	Yes											
Protection	IP43											
Warranty	5 - 8 years (country dependent)*											
	* when installed by a Selectronic Accredited Installer											