

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
		3	125	4.5	188	5	104	7.5	156	7.5	63	20	167
Short Term Ratings @ 25 °C													
30 seconds		7.5 kW		10.5 kW		12 kW		18 kW		18 kW		44 kW	
1 minute		5.4 kW		7.6 kW		8.7 kW		13 kW		13 kW		30 kW	
30 minute													
60 minutes		3.2 kW		4.7 kW		5.3 kW		8 kW		8 kW		24 kW	
Nominal battery voltage		24 V		24 V		48 V		48 V		120 V		120 V	
DC input voltage range (V d.c.)		20 - 34		20 - 34		40 - 68		40 - 68		100 - 170		100 - 170	
DC consumption: idle		8 W											
Peak Efficiency – all modes		95%		95%		96%		96%		97%		97.2%	
	20% load	93%		93%		94%		94%		95%		96.8%	
	30% load	95%		95%		96%		96%		97%		97.2%	
	50% load	94%		95%		95%		96%		96%		97.1%	
	100% load	90%		91%		93%		93%		94%		95.5%	
EU efficiency (average 5, 10, 20, 30, 50 & 100%)		92%		92%		93%		92.5%		93%		95.6%	
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 & remote control											
TRANSFER CONTACTOR													
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		42 kg		115 kg	
STANDARDS													
Safety (UPS)		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											

