



SC500 DGPS Transmitter

Part Number: SLF30602

SPECIFICATION SHEET

5055 Belmont, Beaumont, TX 77707
 Phone +409.842.1717/1.800.648.6158 (Toll Free in the US)
 Fax +409.842.2987
 sales@southernavionics.com



FEATURE	SPECIFICATION
Frequency	283.5 - 325 kHz 5 mW MSK sinewave signal
Power Output	Carrier power into 50 Ohms continuously adjustable from 10 - 500 W max
Spurious Emission	Less than -70 dBc
Radiated Harmonics	Less than -60 dBc
Type of Emission	NON, G1D
Noise and Hum Level	Less than -40 dB
Input Power	115/230 V +/-10%, single phase 50 - 60 Hz; or 144 VDC or both with switch over to batteries
Nominal AC input power	688 W at 500 W output
Nominal DC input power	575 W at 500 W output
Temperature Range for Working Conditions	-15°C - +55°C
Relative Humidity for Working Conditions	0 - 95%
Metering	Forward power output, reflected power output, PA voltage and PA current
Height	78 in. (198cm)
Length	32 in. (81cm)
Width	23 in. (58cm)

*Information provided is subject to change without notice

Application:

The SC500 transmitter uses switching technology in the power amplifiers and modulator regulator modules resulting in a highly efficient system in a small package. The power portion of each transmitter consists of two independent 500 Watt systems. Each system has an output filter, a switching power amplifier, and switching modulator/regulator. The RF output of each system is combined to provide a 500 Watt signal to the Antenna Coupler.

The SC500 Dual consists of two independent SC500 transmitters and an Automatic Transfer Unit / RSIM Controller designed to mount in a single 19 in. rack cabinet. This control mechanism uses RSIM commands that allow the unit to control up to 24 external devices, through relay contacts, and has the ability of monitoring up to 40 external devices such as intrusion alarms, temperature and humidity sensors. Radio Technical Commission for Maritime Services (RTCM) Standard Integrity Monitor with RS232, RS422, RS485 or Ethernet communications is available. This unit works in conjunction with the PC-.5Kilo Antenna Tuning Unit. The minimum antenna requirements for the SC500 are a 90 ft. (27m) / 145 ft. (43m) Guyed Mast or a 90 ft. (27m) / 120 ft. (36m) Symmetrical "T" Antenna. Meets FCC and CE requirements.