

SG-500 LINEAR AMPLIFIER



SG-500
Cat. # 52-96

The SmartPowerCube™: Brawn AND Brains.

The SG-500 500W linear amplifier is ideal for high power operation in your base station or mobile installation. The SG-500 is micro-processor controlled. It automatically monitors your power needs and selects the right broadband filter. It also has the most advanced self-protection on the market, providing maximum reliability and unattended operation. For maximum power, under the most demanding conditions, the SmartPowerCube is the professional's choice.

Everything you need for 500 Watts.

The optional continuous operation fan kit for the SG-500 allows the user to operate at 500W PEP or CW under high stress conditions. It is brushless and is activated automatically when heatsink or ambient temperature exceed 50 degrees C, allowing 24 hour operation.

The remote control permits convenient operation of the SG-500 amp and includes an ON/OFF switch with LED DC power indicator. Supplied with 20 feet of control cable.

The PS-50 is a direct rectified power supply for 115/230 VAC, 50/60Hz designed for the SG-500. For operation up to 500W PEP. DC power cable not included. Use two PS-50s for 500W CW output with the SG-500.

Specifications

HF frequency range:	1.6 - 24MHz (To 30MHz Export)
Power input range:	50 - 90W Auto, 150W Max
Power output:	500W PEP, 250W Carrier Max
Band switching	Fully automatic
DC input voltage:	+14 VDC
DC operating range:	10 -18.5 VDC
Input current:	40A Avg./SSB, 90A Peak/CW
Cooling:	Convection standard, opt. fan kit
TX/RCV switch time:	10 milliseconds nominal
Band switch time:	15 milliseconds nominal
Keying:	Via PTT line (or RF sense Export)
Protection:	Input overdrive, under voltage - adjustable (factory set to 10VDC) VSWR, frequency, over current, over temperature
Built-in testing:	LED bank fault indicator
Operating temperature:	-35 to +70 degrees C
Supported modes:	SSB/CW/RTTY/SITOR/ALE/SSTV AM at 250W
Size (inches):	11.5 x 12.25 x 6(9.75 w/ fan)
Weight:	21 pounds
Case Construction:	Aluminum casting - matte black