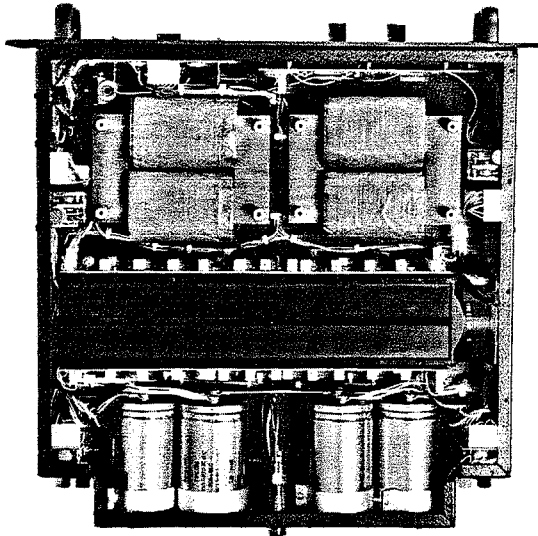


Crest 3500S, 3501S Professional Power Amplifiers



8 OHM Stereo

Power Output: 225 Watts per channel
1kHz Power Output: (.1% THD at Clip): 250 Watts per channel
Total Harmonic Distortion:
 From 250 Milliwatts to rated output—Less than .06%
 Less than .03% at 250 Watts—20kHz
 Less than .01% at 250 Watts—10kHz
 Less than .005% at 250 Watts—20Hz to 1kHz
Intermodulation Distortion: Less than .015%
Transient Intermodulation Distortion: Less than .015%
Frequency Response: 0dB 20Hz to 10kHz
 –2dB 10Hz to 20kHz
 –3dB 80kHz
Rise Time: Faster than 3 microseconds
Slew Rate: Greater than 40 Volts per microsecond
Damping Factor: Greater than 300:1 20Hz to 1kHz
Crosstalk: –75dB at 1kHz
 –50dB at 20kHz
Input Sensitivity: 1.0 Volts for 225 Watts
Voltage Gain: 40±1% @ 32dB±.1dB
Hum & Noise: (20Hz to 20kHz)
 –100dB below rated output

4 OHM Stereo

Power Output: 400 Watts per channel
1kHz Power Output: (.1% THD at Clip): 450 Watts per channel
Total Harmonic Distortion:
 From 250 Milliwatts to rated output—Less than .1%
 Less than .05% at 400 Watts—20kHz
 Less than .02% at 400 Watts—10kHz
 Less than .005% at 400 Watts—20Hz to 1kHz
Intermodulation Distortion: Less than .02%
Transient Intermodulation Distortion: Less than .02%
Frequency Response: 0dB 20Hz to 10kHz
 –2dB 10Hz to 20kHz
 –3dB 80kHz
Rise Time: Faster than 3 microseconds
Slew Rate: Greater than 40 Volts per microsecond
Damping Factor: Greater than 150:1 20Hz to 1kHz

Crosstalk: –80dB @ 1kHz
 –55dB @ 20kHz
Input Sensitivity: 1.0 Volts for 400 Watts
Voltage Gain: 40±1% @ 32dB±.1dB
Hum & Noise: (20Hz to 20kHz)
 –100dB below rated output

Monaural (8 Ohm)

Power Output: 800 Watts
1kHz Power Output: (.1% THD at Clip): 850 Watts
Total Harmonic Distortion:
 From 250 Milliwatts to rated output—Less than .05%
 Less than .03% at 800 Watts—20kHz
 Less than .01% at 800 Watts—10kHz
 Less than .005% at 800 Watts—20Hz to 1kHz
Intermodulation Distortion: Less than .01%
Transient Intermodulation Distortion: Less than .01%
Frequency Response: 0dB 20Hz to 20kHz
 –2dB 10Hz to 10kHz
 –3dB 65kHz
Rise Time: Faster than 6 microseconds
Slew Rate: Greater than 90 Volts per microsecond
Damping Factor: Greater than 130:1 20Hz to 1kHz
Input Sensitivity: 1 Volt for 800 Watts
Voltage Gain: 80±1% @ 38dB±.1dB
Hum & Noise: (20Hz to 20kHz)
 –100dB below rated output

General Specifications:

Input Impedance: XLR and ¼ inch phone jack (Balanced) 9k Ohms±1% (Unbalanced) 14.6k Ohms±1%
Power Supply:
 Transformers—2 Independent 1KVA Semi-Toroidal
 Capacitors—30,000MFD per channel
 Circuit Breakers—8 Amp Thermal activated
Semi-Conductor: 4 Bi-FET Op Amps
 10,150 Watt Power Transistors per channel
Thermal Protection: Thermal sensor activates temp. circuit for channel shut down at 90°C
DC Protection: DC Sensor activates "Protect" circuit for channel shut down at 10 Volts DC or 8Hz (full power)
Turn on Delay: Protect circuit activates at turn on to allow stabilization
Surge Protection: Protect against high in-rush current peaks on turn on
Construction:
 Chassis—16 Gauge cold-rolled steel ¾ inch heavy aluminum front panel
 Electronic—Totally Modular/PVC covered wiring
 PC Boards—Glass based epoxy FR-4
 Locking "quick disconnect" connectors
Heat Sinking & Cooling: High efficiency forced air cooling utilizing massive heat sink extrusions
Connectors:
 ¼ inch phone jack and XLR (Balanced or Unbalanced)
 5 way Binding Posts
 16 Gauge SJ 3 conductor AC Cord

Controls: 2 Gain Controls
 Mono Bridging Switch
Indicators: One "Clip" LED per channel
 One "Temp." LED per channel
 One "Protect" LED per channel
VU Meter: Twin peak reading VU Meters with "fast" response LED display
Distributed Lines (Mono):
 Will drive 70 Volt Lines
Industrial Use: Will adapt to drive Servo-Motors, Shaker Tables, etc.
Power Requirements: Selectable 100V, 120V, 220V, 240 Volts AC, 50/60 Hz
Dimensions:
 Low Profile 3½ inch height, 19 inch standard rack mount width
 16½ inch depth overall, 14½ inch depth to connectors
Net Weight: 57 lbs (25.8Kg)

Test Conditions

Power Output: FTC rated continuous average sinewave over a bandwidth from 10Hz to 20kHz
IMD: From 250 Milliwatts to rated output (60Hz-7kHz 4:1) SMPTE
TIM: From 250 Milliwatts to rated output (15kHz Sinewave—3.18kHz Squarewave 4:1) Leinonen, Otala, Curl—AES Journal
Line Input: Regulated at 120 Volts AC

Test Instruments

Sound Technology 1710A Distortion Measurement System
 Philips Oscilloscope Model 3214
 Power Stat Varic
 Fluke Digital Multi-Meters
 Hewlett Packard Spectrum Analyzer Model 3580A
 1% Dummy Loads
 Listening tests for products development conducted utilizing computer matched phased array KEF Model 105 Speaker System

Warranty

Model 3500S is covered by a full three year parts and labor warranty.

All specifications and features are subject to change without notice.

 **CREST AUDIO**

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