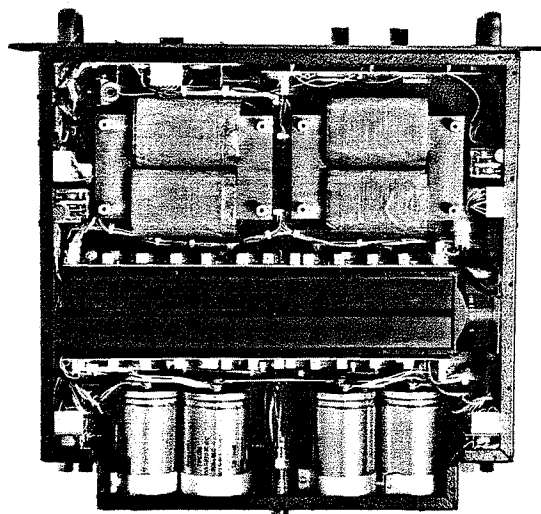


Crest 3500S, 3501S Professional Power Amplifiers



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 ¾₁₆
inch heavy aluminum front panel
Electronic—Totally Modular IPVC 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.

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