SERIES THREE AMPLIFIERS FROM QSC

MODEL 3200

The QSC Series Three Model 3200 is a very low-profile amplifier designed for reference quality audio applications requiring medium power. Engineered specifically for recording studios, touring systems and engineered sound, this amp is well suited for any high quality professional audio application. The 3200 has more power than any other 12" chassis amplifier. Equivalent to amplifiers of three times the rack space, it is well suited for driving small full range enclosures or upper-mid and high-frequency drivers in multi-way systems.

The amplifier is passively cooled and uses a high efficiency output circuit to reduce operating temperatures. The dual mono configuration and front removable channel module design are important features for those interested in very high reliability and minimum down time.

A comprehensive interface panel is provided to assure proper connection to any professional system.

Features:
- Low Profile Chassis
- 110 Watts Per Channel At 8 Ohms
- 140 Watts Per Channel At 4 Ohms
- Dual Mono Configuration
- Front Removable Channel Modules
- Three Year Warranty
- Precision 31 Step Detented Gain Controls
- Passive Cooling With High Efficiency Output Circuit
- Comprehensive Interface Panel
- Passive And Active Accessory Input Modules
- Automatic Back-up Bridged Mono Mode
SPECIFICATIONS

MODEL 3200

OUTPUT POWER (per channel)
Continuous Average Output Power
both channels driven
8 ohms, 20-20kHz 0.1% THD 10W
4 ohms, 20-20kHz 0.1% THD 15W
2 ohms, 20-20kHz 0.1% THD 20W

FREQUENCY RESPONSE
20-20kHz -0.0dB
8-300Hz +0/-3dB

DAMPING FACTOR
Greater than 200

DYNAMIC HEADROOM
3.0dB to 8 ohms

NOISE
1uV RMS for rated power

INPUT IMPEDANCE
20K ohms balanced or unbalanced

CONTROLS
Front: Push-deterrent gain control - Reversed AC switch and AC circuit breaker for each channel
Rear: Mono-bridging and accessory module switches

INDICATORS
Bi-color LED indicating DC power - OK/PROTECT mode - LED cap indicators - -30dB and -6dB signal level indicators - Flashing overtemp indicators

CONNECTORS
1/4" (ring, tip, sleeve) and 3 terminal barrier strip inputs wired in parallel
2-terminal barrier strip and 3-way binding post outputs wired in parallel

ODDING
Passive - combined with high efficiency output stage for reduced operating temperature

AMPLIFIER PROTECTION
Indefinite short circuit - open circuit, over-heat, ultrasonic and if protection
Stable into reactive and mismatched loads - inputs protected from overload

LOAD PROTECTION
Individual channel Overload protection and output relay provides DC Fault 3 second delayed turn on (transient protection), and excessive low frequency protection

OUTPUT CIRCUIT TYPE
Full complementary two-level high efficiency

OUTPUT DEVICES (Watts) 8

POWER SUPPLY
Two completely separate power supplies including AC switches and AC circuit breakers, only AC cord is common

POWER REQUIREMENTS
120VAC, 60Hz, 4.4A

DIMENSIONS
Footprint 19" x 17.5"
Depth (behind mgt with rear support) 16.5"
Depth (chassis) 14.6"

WEIGHT
Net 27 lbs
Shipping 31 lbs

ARCHITECTS AND ENGINEER'S SPECIFICATIONS

The power amplifier shall contain all solid-state circuitry, using complementary silicon semiconductors. It shall be capable of operating from 110-125V, 60Hz AC mains.

The amplifier shall contain two fully independent channels, with separate AC switches, circuit breakers, power transformers, and protective systems. Each channel shall have independent protective circuitry against open-circuit, short-circuit or mismatched loads, independent thermal warning and shutdown circuits, and independent load protection circuits for turn on/off transients including momentary AC dropout and DC faults within or preceding the amplifier. All protective circuits shall be self-resetting. The remaining channel shall continue to operate, in stereo or bridged mono mode, after failure of either channel.

Each channel of the amplifier shall be capable of meeting the following performance criteria, with both channels driven simultaneously:

Output power into 8 ohms: 10 watts, from 20-20kHz, with less than 0.1% distortion.
Output power into 4 ohms: 40 watts, from 20-20kHz, with less than 0.1% distortion.
Frequency response shall be 20-20kHz with less than 0.1dB deviation.

The voltage gain shall be 22dB at full gain.

The power gain shall be 60dB at full gain.

The input sensitivity for rated 8-ohm power shall be 1V RMSBalanced bridging input circuitry shall be standard, and the amplifier shall meet all performance criteria in the balanced or unbalanced mode.

Input impedance shall be 20K ohms balanced or unbalanced.

Noise level shall be at least 100dB below rated power, at full gain.

AMP: Damping factor shall exceed 200.

The amplifier shall be positively cooled, with no fans or moving parts.

Each channel shall have the following control functions and connectors:

31-step Gain control, with 1dB steps over the highest 14dB of adjustment range, with accuracy within 1dB.

Green/Red LED for power/protect indication
Yellow LED signal presence indicators for outputs 8dB and 30dB below rated power
Red LED indicator for any output clipping greater than 0.1%
Flash red LED indicator for heat sink temperatures within 10°C of thermal shutdown
Balanced (Unbalanced) input jacks of the 1/4" inch ring-sleeve, female XLR, and generator screw terminal type

Speaker connections of the five-way binding post and barrier screw terminal type

An octal socket with DC power for passive and active plug in input accessory modules

8-way microswitches for octal socket bypass, mono-bridged mode, cross connection of channels and XLR input polarity

Each channel shall be front-removable with the amplifier mounted in a rack and without disconnecting the input/output cables. All active components, except AC power transformer, AC switch, circuit breaker, and input/output connectors, shall be mounted on the removable channel module. Module connectors shall be flexible to withstand shocks and vibration.

The amplifier chassis shall have a permanently attached AC cord, and a ground lift jumper which permits the separation of circuit and chassis ground if required.

The chassis shall have front and rear 19" rack supports, and shall occupy a single rack space (1.75"

Chassis depth, including rear supports, shall be 16.5 inches.
Weight shall be 27 lbs.

The power amplifier shall be the QSC Audio Products Model 3200