

V42

V-Series Power Amplifier

Features:

- Easily drives reactive phase shifted loads
- Advanced protection schemes including DC voltage load, thermal and breaker protection
- User-defeatable peak limiter that is transparent below clipping levels
- 'Soft turn-on' circuit eliminates damage to loudspeakers and prevents nuisance breaker-tripping
- Computer-optimized Silentfan™ front-to-rear cooling system
- Long-life, faceplate-mounted, user serviceable air intake filters
- Front panel Power, Protect, Activity and Clip LED's
- Speakon™ outputs
- Balanced XLR & 1/4" TRS Balanced inputs & parallel thru-puts
- Sturdy all-steel construction

Description:

Designed specifically to meet the demands of heavy-duty live sound reinforcement touring systems and large-scale installations, the VTC ProAudio V-Series V42 power amplifier uses a proven Class-H topology to deliver reliable, high headroom output power. Engineered for VTC ProAudio by Yorkville Sound and manufactured at their Canadian factory, V-Series amplifiers are the culmination of Yorkville's forty-plus years of professional audio design expertise and manufacturing experience.

Engineered with a low noise signal path and a high current, reduced stray magnetic field toroidal transformer to reduce potential hum and noise, the multi-tier power conversion design delivers superior transient response and low measured distortion - equal to the best of analog amplifier design.

An 'impedance aware' design deals with the realities of driving typical reactive speaker loads and addresses the associated problems such as thermal shutdown, inductive 'snap-back', and premature current limiting. V-Series amplifiers will easily drive reactive phase shifted loads while remaining fully protected against accidental short circuits.

An advanced protection scheme ensures the loudspeaker won't experience harmful DC offset voltages while protecting the amplifier from abnormal load, AC power brownout, and high temperature failures. A user-defeatable transparent peak limiter lowers



distortion at high power operating conditions, and provides ample protection for the loudspeaker's components. A 'soft turn-on' circuit eliminates transient damage to connected loudspeaker systems and prevents nuisance circuit breaker-tripping during the amplifier's power up procedure.

The computer-optimized (Silentfan™) front-to-rear cooling system incorporates ultra-quiet, variable-speed internal fans ensuring that the output power transistors operate with ample thermal margin. For ease of maintenance the amplifiers are supplied with long-life, faceplate-mounted, user serviceable, air intake filters. Front panel Power, Protect, Activity and Clip LED's are bright and easy to see and all knobs are recessed for safe, easy transportation.

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Delivering 1200 watts per channel into 2-ohm loads, or 2400 watts bridged into a 4-ohm load, the V42 is the ideal solution for powering the Elevation Series EL210 mid or high frequency components.

A proven Class-H amplifier topology, high current toroidal transformer, ample filter capacitance and advanced protection schemes ensure maximum fidelity, extremely high headroom and unmatched long-term reliability, in even the most demanding live sound or fixed installation application.

VTC PRO AUDIO

Specifications:

Amplifier Topography	Class-H
Continuous Average Power @ 8 Ohms	475 Watts (x2) Both Channels Driven
Continuous Average Power @ 4 Ohms	750 Watts (x2) Both Channels Driven
Continuous Average Power @ 2 Ohms	1200 Watts (x2) Both Channels Driven
Continuous Average Power Bridged	2400 Watts @ 4 Ohms
Burst Average Power @ 8 Ohms	625 Watts (x2) Both Channels Driven
Burst Average Power @ 4 Ohms	1200 Watts (x2) Both Channels Driven
Burst Average Power @ 2 Ohms	2175 Watts (x2) Both Channels Driven
Burst Average Power Bridged (Watts)	4350 Watts @ 4 Ohms
Frequency Response (+/- 1dB)	20-20,000 Hz,
Hum and Noise (un-weighted / A-weighted)	-103 dB / -106 dB
THD 1 kHz @ 4 Ohms	0.01%
THD - 20Hz-20kHz @ 4 Ohms	less than 0.1%
Slew Rate	25 V/uS
Slew Rate Bridged	50 V/uS
Damping Factor (30 Hz - 400 Hz @ 8 Ohms)	600
Crosstalk (1kHz / 20Hz-20kHz)	-75 / -60 dB
Input Impedance (Balanced/Unbalanced)	20,000/10,000 Ohms
Input Sensitivity (Vrms) For Full Power Out	1.2V
Max Voltage Gain	32 dB
CMRR @ 60Hz (min/typical)	48/56 dB
Protection	DC, Load, Thermal, Peak Limiter
High Pass Filter	40Hz, 12dB Octave
Inputs - XLR	2
Inputs - 1/4" Jacks	2
Speakon Outputs	2 (Channel 1, Channel2)
Power Consumption (typical/max)	1130/1800 Watts
Rack Spaces	2
Transformer Type	Toroidal
Dimensions (DWH /D fm ears, inches)	19 x 17.3 x 3.5 x 16.2
Dimensions (DWH /D fm ears, cm)	48.3 x 43.9 x 8.9 x 41
Weight (lbs / kg)	41 / 18.6

Specifications subject to change without notice.

