

T SERIES ENGINEERING INFORMATION

The T-475 is a lightweight 4-channel switchmode power amplifier designed for use in both concert touring and fixed installation applications.

The switchmode power supply is capable of delivering large transients without perceptible low frequency 'sag' because of its large power reservoir, and is the key—along with the aluminium chassis construction—to the very low net weight (only 10.25kgs), making the T-475 an ideal choice for concert and regional touring. The amplifier utilises a Class AB output stage with fixed rail architecture, which enables a stable DC supply and optimum headroom while maintaining excellent sonic quality.

Each channel is provided with four 3-pin female XLR input connectors, and these can be linked to the next channel via a rear panel switch. Each channel has a Speakon NL4 output. In addition channels C and D are also routed through the second set of pins on channel A and B Speakon outputs respectively. This gives the potential of running two separate bi-amped monitor mixes from one amplifier.

The T-475 features a sophisticated power control system linked to the limiters and to the power supply, with continual monitoring of load, temperature and other operating parameters. The power reduction control (PRC) effectively reduces the available power output from the amplifier by enabling the user to set a

maximum output power level below its rated output. This allows a better match with the power handling of the loudspeaker system in use, and thereby improves overall system reliability.

In addition to the AC power switch and power-on LED, the front panel carries a simple and intuitive set of status indicators. These include four 5-segment LED meters, a load indicator and an auto protect indicator.

The amplifier is comprehensively equipped with protection features. A soft start sequence with full in-rush protection powers the amplifier up in mute and progressively fades up the signal to the previous setting. Diagnostic circuits constantly monitor load, temperature and other parameters, and automatically adjust the power supply if any overheating occurs. The amplifier only requires a manual restart following short circuit faults.

The T-475 is designed around a roadworthy 2U, 19" rack mount package with integral carrying handles on a 5mm front panel. In addition a rack mount kit is supplied to enable the rear of the unit to be rack-mounted for extra stability. Low noise vari-speed fans are utilised for front to rear forced air cooling, together with front panel mounted reticulated foam air filters which can be easily removed for cleaning.



FEATURES

Four channels

Digital power supply

Automatic impedance sensing

Full DC and short circuit protection

Lightweight construction

Low distortion limiters

Power control system

Optional crossover cards

Soft Start Power-on

APPLICATIONS

Concert touring

Regional touring

Permanent installations

INPUTS	4 x 3-pin female XLR
INPUT IMPEDANCE	20k ohms, actively balanced
INPUT CMRR	>90dB
OUTPUTS	4 x 4-pole Speakon
OUTPUT POWER (RMS per channel)	750 watts into 8 ohms @ 1kHz 825 watts into 4 ohms @ 1kHz
THD @ RATED POWER	<0.006% @ 1kHz, 4 ohms
HUM AND NOISE	-105dB
GAIN	selectable +32dB/+26dB/+31dB
SENSITIVITY	+5dBu/+11dBu/+6dBu for rated output, 4 ohms
DAMPING FACTOR	>400 (1kHz, 8 ohms)
FREQUENCY RESPONSE	20Hz-20kHz, +0/-0.5dB
SIZE (H X W X D)	88mm x 482mm x 428mm (3.5" (2U) x 19" x 16.8")
NET WEIGHT	10.25kg (22.5 lbs)
POWER REQUIREMENT	230 VAC @ 15 amps max or 115 VAC @ 30 amps max
CONTROLS FRONT	4 x level controls 1 x power on/off switch
CONTROLS REAR	2 x PRC switch 3 x link switch
INDICATORS	1 x power, 4 x five segment LED metering 2 x load indicator, 1 x audio protect