



## PA Series

### Compact Commercial Power Amplifiers

The PA series of compact commercial rack mount power amplifiers are designed for demanding sound reinforcement, background music/paging and public address system installations where long term reliability and flexibility is the ticket. These units are exceptional values, loaded with features and are easy to install in a variety of system designs. The models in the PA series range from 160 to 450 watts of power per channel in a compact 2RU package.

All models have a variety of features which enables them to be customized to a wide range of demanding commercial sound and audio reinforcement applications. The PA1250T, PA2250T and PA2400T all provide 70/100V output capability using low distortion output transformers for wide bandwidth and minimal saturation.

#### Compact and Easy To Install

The input connectors are a 3pin phoenix style which provide balanced audio. The speaker outputs also feature convenient phoenix style quick disconnect terminals to facilitate pre-wiring of the installation. Built in rack mount ears and rear rack supports provide secure and convenient mounting.

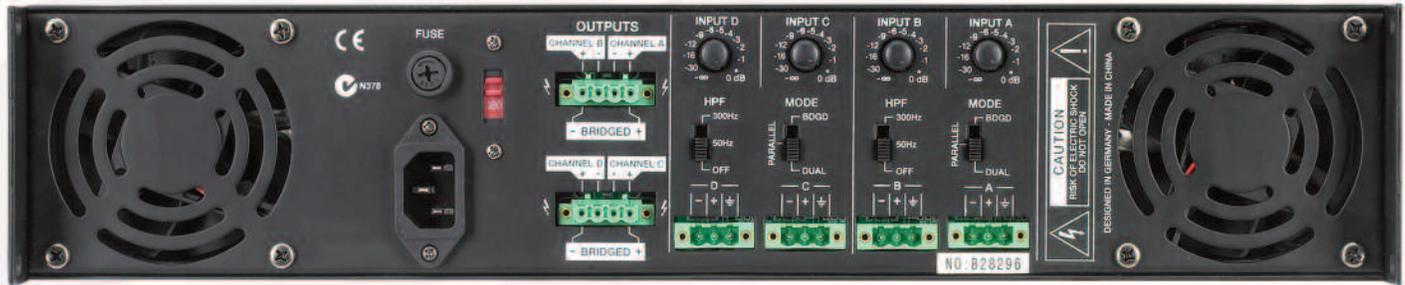
#### Complete Protection Package

A comprehensive 4 way protection package in every PA series amplifier helps protect the amplifier and speaker for reliable long term performance. The package provides complete protection for excessive temperature, audio limiters, power up delay and peak current limiters. All PA series models provide excellent headroom for a wide dynamic range on music signals. The onboard dynamic limiter protects the amplifier and speaker from dangerous transients.

All the PA amplifier models feature a low distortion amplifier design which can be bridged for more power flexibility in multi channel models. The physical chassis of the PA series is also designed for reliability. Ample internal cooling capacity ensures reliable operation. The PA series runs cool and stable with the direct flow thru chassis layout. The multistage cooling fan runs exceptionally quiet in all modes.

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PA4150 Rear Panel Shown

	PA2450L		PA4150L		PA2400T				PA2250T				PA1250T	
<b>Number of Channels</b>	2		4		2				2				1	
<b>Load Impedance</b>	8ohm	4ohm	8ohm	4ohm	8ohm	4ohm	100V	70V	8ohm	4ohm	100V	70V	100V	70V
<b>Rated output power</b> (*rated load) THD<1%, 1kHz	220W	450W	100W	160W	215W	430W	430W	430W	135W	270W	270W	270W	270W	270W
<b>Rated output power</b> (*rated load) THD<0.2%, 20Hz - 20kHz	200W	400W	75W	150W	200W	400W	400W	400W	125W	250W	250W	250W	250W	250W
<b>Slew rate at 1kHz</b> V/ $\mu$ s	28		16		25		65	46	18		61	41	61	41
<b>Frequency response</b> - 1dB, ref. 1kHz	<10Hz - 40kHz		<10Hz - 40kHz		65Hz - 40kHz		65Hz - 20kHz		65Hz - 40kHz		65Hz - 20kHz		65Hz - 20kHz	
<b>Damping factor</b> @ 100Hz / 1kHz, 4ohm	>250		>250		>250		N/A		>250		N/A		N/A	
<b>Power bandwidth</b> THD=1%, ref. 1kHz, half power	<10Hz - >50kHz		<10Hz - >50kHz		45Hz ... >20kHz				45Hz ... >20kHz				45Hz ... >20kHz	
<b>Input impedance</b> 20Hz - 20kHz, balanced	>20kohm		>20kohm		>20kohm				>20kohm				>20kohm	
<b>Signal to noise ratio</b> A-weighted	104dB		100dB		103dB				103dB				103dB	
<b>Input sensitivity</b> @ rated output power or voltage, 1kHz	0dBu (775mV)													
<b>THD @ rated output</b> power MBW=80kHz, 1kHz	<0.1%													
<b>IMD-SMPTE</b> 60Hz, 7kHz	<0.1%													
<b>DIM30</b> 3.15kHz, 15kHz	<0.1%													
<b>Crosstalk ref.</b> 1kHz, @ 10% rated output power	<-75dB													
<b>Power requirements</b>	120V or 230 V, 50Hz -60Hz													
<b>Protection</b>	Audio limiters, high temperature, peak current limiters, turn-on delay													
<b>Cooling</b>	Front-to-rear													
<b>Dimensions</b> W x H x D, In. (mm)	19.0 (483) x 3.5 (88) x 16.0 (406)													
<b>Weight</b>	36.34lbs (16.5kg)		39.65lbs (18kg)		57.27lbs (26kg)				51.76lbs (23.5kg)				36.34lbs (16.5kg)	

### All PA models feature:

- Balanced phoenix style input connectors – makes installation easy.
- A phoenix style connector block for all output modes.
- Models available from 160 to 450 watts per channel into 4 ohms or 70/100V.
- Bridge mode operation on all multi channel models provide power flexibility.
- Switch selectable hi-pass filter at either 50Hz or 300Hz meets any installation requirement.
- Independent rear panel level controls provided for each channel
- All models provide multi-voltage operation from 110-240vac.
- Integrated “rack ears” allow for rack mounting without additional accessories.

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