



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

Americas

Headquarters Americas
Telex Communications Inc.
12000 Portland Ave South,
Burnsville, MN 55337, USA
USA—Phone: 1-800-392-3497
Fax: 1-800-955-6831

Canada—Phone: 1-866-505-5551
Fax: 1-866-336-8467

Latin America—Phone: 1-952-887-5532
Fax: 1-952-736-4212

Europe, Africa & Middle-East

Headquarters Europe,
Africa & Middle-East
EVI Audio GmbH.
Hirschberger Ring 45, D 94315,
Straubing, Germany
Phone: +49 9421 706-0
Fax: +49 9421 706-265

France: EVI Audio France S.A.,
Parc de Courcerin,
Allée Lech Walesa,
F 77185 Lognes, France
Phone: +33 1-6480-0090
Fax: +33 1-6006-5103

UK: Shuttlesound,
4 The Willows Centre,
Willow Lane, Mitcham,
Surrey CR4 4NX, UK
Phone: +44 208 646 7114
Fax: +44 208 254 5666

Asia & Pacific Rim

Headquarters Asia
Singapore: Telex Pte. Ltd.
3015A Ubi Road 1, 05-10
Kampong Ubi Industrial Estate,
Singapore 408705
Phone: +65 6746-8760
Fax: +65 6746-1206

Japan: EVI Audio Japan Ltd.
5-3-8 Funabashi, Setagaya-Ku,
Tokyo, Japan 156-0055
Phone: +81 3-5316-5020,
Fax: +81 3-5316-5031

Hong Kong: Telex EVI Audio (HK) Ltd.
Unit 5,1/F, Topsail Plaza
11 On Shum Street
Shek Mun, Shatin HK
Phone: +852 2351-3628
Fax: +852 2351-3329

China: Telex EVI Audio (Shanghai) Ltd.
Room 2210-2215,
Tower B, Far East International Plaza
No. 317, Xianxia Road,
Shanghai, China, PC: 200051
Phone: +86 (21) 6235-1677
Fax: +86 (21) 6235-1676