



**axxent<sup>®</sup>**

Intelligent  
Audio Solutions  
for Professionals

**THE PROGRAM**



DISTRIBUTION & SUPPORT

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## Communication system for wired music and voice transmission

The axxent Audio Intercom System provides highly intelligible speech and music transmission, even at long cable runs. Typical applications are in halls, arenas, theatres, congress centres, concert events etc. The system provides ease of setup and operation. No special cables are required. In addition to a flashing light alert, a switchable piezo buzzer makes the user aware of calls, even in noisy environments. The system may easily be expanded via link bus if it becomes necessary.

### MS 100 One channel intercom master channel

The MS 100 master station provides one intercom channel with high quality audio signal transmission. The power supply of the master station feeds up to 14 belt packs. Sound and light alerts are standard features. All important connectors and controls are located on the front of the unit, such as headset plug, XLR connector for belt packs and XLR line output. All other functions and important data are identical to the two channel unit MS 200 and belt pack BP 100.

### Features

- ⇒ flexible concept with 1-/2-channel main stations (MS 100/MS 200)
- ⇒ master station feeds up to 14 belt packs
- ⇒ 19" rack mounting case, 1 U only
- ⇒ light and sound alert
- ⇒ line and microphone input
- ⇒ excellent intelligibility and sound quality
- ⇒ all industry standard headphone/mic combinations
- ⇒ standard 3-pin XLR cables to be used
- ⇒ multiple mounting accessories



### CP 100 Loudspeaker station for one channel

The speaker station CP 100 provides all necessary and important intercom functions and connectors in a compact housing of just 1 U high. The speaker can be switched off, therefore this station can also be used as a one channel main station by using the power supply RS 1. The unit may be freely positioned or it can be rack- or wall mounted with optional mounting hardware. When using the CP 100 as regular speaker station, power will be supplied by the main station MS 200.



**WMK 100** wall mounting accessory for CP 100



**RMK 100** rack mount kit for CP 100



**PS 100** external power supply

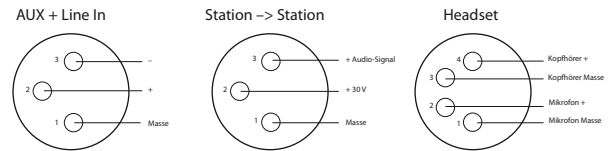
### PS 100 External power supply

The new power supply PS 100 allows operation of up to 6 intercom belt packs, for example the axxent BP 100. It also can power signal lights or other smaller intercom components, such as the axxent CP 100 loudspeaker station. Reason for the new design mainly was the disappearance of side racks in pa systems, so that more and more users asked for such kind of power supply, allowing the operation of intercom components without master stations.



## MS 200 Two channel intercom master station

The main station MS 200 provides two separate channels for audio intercom. The basic features and data are identical to the model MS 100 and the belt pack model BP 100.



3 an 4 pin XLR connectors



## BP 100 Belt Pack Portable one channel intercom station

The belt pack BP 100 is a portable 1-channel intercom station for connection to a main station MS 200. The integrated belt clip allows for easy fixing the unit to clothes. All controls on the front side of the unit are identical to those on the main station. On the rear of the unit all XLR connectors are easily accessible (left on photo the 4 pin XLR connector for the headset and on the right the 3 pin XLRs for signal loop-through to the next station). The side tone is adjustable. Nearly all features are identical to those on the main station. The BP 100 features light and sound alarm. The sound alarm is switchable.



## BP 100V Belt-Pack with Vibration-Alarm-Modul

The Model BP 100V with its basic features is almost identical to the BP 100. In addition it offers an extra input for an external vibration alarm module (only 5 x 4 x 2 cm). The connection cable has a length of 80 cm and is equipped with a mini phone plug. The "Vibro Alarm" comes in handy, when the light alarm is not recognized by any reason. The BP 100V is compatible to other common Partyline intercom systems.



model D 900 E



model D 900



model D 800



model D 800 E

## Headsets – microphone-/headphone combinations

These four headset models have been especially designed for intercom applications. Selection of the right model pretty much depends on the application project and the system specifications. The headsets are made of rugged PE plastic material. All models have been developed with the critical acoustical and electrical insulation between microphone and head phone in mind. Hereby the usual crosstalk problems normally associated with multi channel intercom systems could be minimized. Special ear cushions provide the acoustical insulation without degrading the comfort, even at longer sessions and high environmental noise levels. The balanced microphone provides a precise cardioid pattern and a highly effective windscreen.

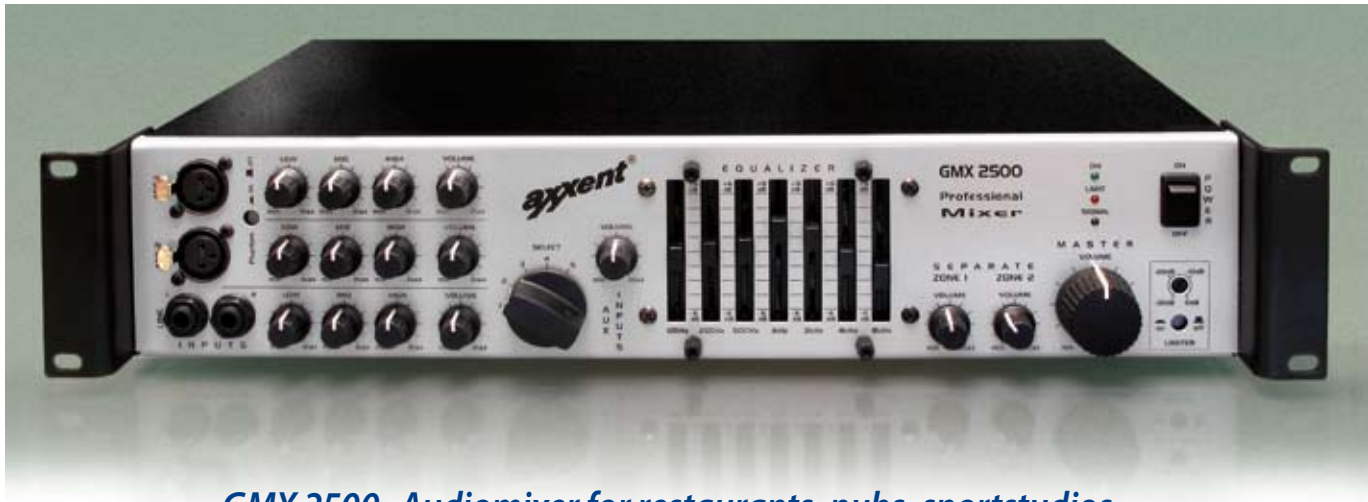
### Series 800:

extreme robust; optimised for speech intelligibility; very high sound pressure levels; reasonable price; 4 pin XLR female connector attached.

### Series 900:

Studio sound quality; comfortable wearing; microphone boom pivot allows left- or right positioning; automatic switch off by turning up microphone

*Models with the suffix "E" provide only one headphone.*



**GMX 2500** Audiomixer for restaurants, pubs, sportstudios....

### GMX 2500 Flexible professional mixer, easy to operate

The new axxent Mixer GMX 2500 was specially developed and designed for applications such as restaurants, pubs, bars, bistros, lounges, sport studios (aerobic) or in amusement and entertainment facilities.

The GMX 2500 is a high quality mixer in a robust steel housing, relatively small depth. Rubber feet ensure a safe placement on surfaces. The units are shipped with ready mounted rack ears, detachable for table mount. The height of 2 U was intentionally selected to provide easy to locate and adjust the control elements. The mixer provides two balanced microphone inputs on the front with switchable phantom power and a stereo input for instruments with 1/4" TRS jacks, adaptable to RCA connectors (adapters included).

Each of the three front inputs provide a 3 band equalizer with level controls. Located on the rear side are two microphone inputs in parallel to the front inputs and 5 stereo AUX inputs. The signal sources are selectable on the front side with a big rotary knob and have their own level control. Recordings can be made via additional RCA outputs. A 7 band equalizer with sliders on the front allows for a sound fine tuning. For safety reasons this section may be protected by a cover plate. The Mixer GMX 2500 provides a main stereo output and two additional mono zone outputs with their own level controls.



A special highlight of the Mixer GMX 2500 is the switchable and adjustable multiband limiter. Without adding sound coloration the limiter allows an attenuation of output levels up to 30 dB, complying with official specifications of governmental regulations.

### Features

- ⇒ 2 XLR-microphone inputs with switchable phantom power
- ⇒ Stereo-Input\*, 1/4" TRS adaptable to RCA, for instruments or CD/MP3-player (adapter included)
- ⇒ 3 band equalizer on each input with separate level controls
- ⇒ Source select switch for the 5 stereo AUX inputs
- ⇒ 7 band equalizer (with optional protection cover included)
- ⇒ Stereo output level control + 2 mono zone level controls
- ⇒ switchable and adjustable (up to 30 dB) multiband limiter
- ⇒ 2 XLR microphone inputs, parallel on front and rear
- ⇒ 5 stereo AUX inputs; Stereo record outputs (RCA)
- ⇒ Stereo main output (XLR); Mono zone outputs (XLR)
- ⇒ Dimensions (without rack ears): 430 x 88 x 260 mm (w x h x d)  
Dimensions (with rack ears): 483 x 88 x 260 mm (w x h x d)
- ⇒ Weight 4.4 kg (net), 5.9 kg (shipping)
- ⇒ Case and chassis: robust durable steel construction
- ⇒ High quality product made in Europe
- ⇒ 6 years of full warranty

\*left line input is a TRS jack, allowing the use as Stereo (TRS) or as separate mono left/right inputs



# Delay PD 1A

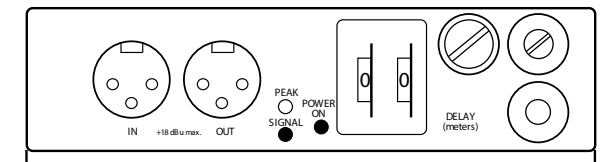


## PD 1A Pocket Delay Professional Single Channel Delay

The axxent Pocket Delay PD 1A is a single channel audio delay for professional applications. Due to its physical design and dimensions the PD 1A finds its primary use in conjunction with self powered loudspeakers. Dimensions are approx. 15 x 23 cm at a height of only 5 cm. The water-/moisture unit provides protection according to IP23. The cover flanges allow fast mounting on the rear side of most loudspeaker cabinets. Maximum delay time is 99 m, switchable in steps of 1 m. The nominal level of the PD1A is +4 dBu and digital conversion is of the delta-sigma type, 24 bit, both A/D and D/A. The electrical and acoustical performance of this model meets the highest demands for professional applications.

## Features

- ⇒ Time delay for portable, mobile systems (e.g. race tracks, open air events etc.)
- ⇒ Easy mounting on speaker cabinets
- ⇒ Moisture protected according to IP23
- ⇒ Delay time is entered directly in meters
- ⇒ Delay range: 1-99 meter, in 1 m steps
- ⇒ XLR in/outputs @+4 dBu level
- ⇒ Delta-Sigma 24 bit AD-/DA-converter
- ⇒ Integrated power supply, fixed power cord, IEC plug



## Technical Data

### Analog-Input

Connector.....	XLR, balanced
Type.....	RF filtered
Input type .....	electronically balanced
Impedance .....	30 kΩ
Input level .....	+18 dBu (max.)
Nominal level.....	+4 dBu

### Analog-Output

Connector.....	XLR, balanced
Input type .....	electronically balanced
Impedance .....	100 Ω, balanced
Output level .....	+18 dBu (max.)
Nominal level.....	+4 dBu
Output gain.....	±0.2 dB

### Digital-Processing

Converter.....	24-bit Sigma-Delta
Sampling.....	24/128 times oversampling
Sampling rate .....	48 kHz
Delay range.....	1-99 m
Delay steps.....	1-m-steps

### General

Dynamic range.....	<95 dB
Frequency response.....	20-19 000 Hz, ±0,2 dB
THD.....	<0,05%@1 kHz, +18 dBu
Noise .....	>92 dB, unweighted., 22-22 000 Hz
Indicators .....	LEDs: On, Signal, Peak
Power.....	115/230 V AC, 50/60 Hz, 15 VA max.
Power Supply.....	integrated
Dimensions .....	151 x 40 x 236 mm (w x h x d)
Weight .....	1.5 kg net

## Professional power amplifier for 50V/70V/100V and low impedance outputs



**Model AX 1121 T: 120 Watts**



### Description of the T-series models

The axxent T-series power amplifiers are optimised for constant voltage distribution in fixed installations. Beside the constant voltage outputs with 50-, 70- and 100 V taps, the T-models also provides an additional low impedance output (4 Ohms). The rated output power of the T-series models goes from 120 Watts to 400 Watts<sub>RMS</sub> at all output configurations. This broadband choice of outputs makes these amplifiers an ideal and most flexible choice for fixed installations. The 19" rack mount case perfectly fits into standard racks. The passive cooling system guarantees absolutely quiet operation (model AX 1400T provides cooling aided by an automatic fan). Operating conditions, such as power on/off, signal present and signal peaks close to clipping are indicated by LEDs. The only control on the amplifier front panel is the "input sensitivity". For safety reasons the knob of the poten-tiometer is detachable and can be replaced with the blind cover found in the packaging.

The input is equipped with a balanced XLR connector, the constant voltage output with a Euroblock connector and the low impedance output with touch proof binding posts. For loop trough of the input signal an additional XLR connector is provided. The power on/off switch with detachable IEC connector is located on the rear of the amplifier, facilitating the rack wiring. The robust case and chassis are made of heavy duty steel with powder coating front. CE-Certificate for European wide operation.

*The bottom line: A professional amplifier that offers a combination of compact size, reliability and flexibility at an affordable price.*

### Features

- ⇒ Output power 120 to 400 Watts at all output configurations, constant voltage or low impedance (4 Ohms)
- ⇒ Compact design for easy 19" rack mounting
- ⇒ Balanced XLR connectors on inputs and signal loop-trough, Euroblock and binding posts on outputs
- ⇒ Quiet passive cooling (AX 1400T aided by an additional automatic fan)
- ⇒ Detachable knobs with blind cover and rear on/off switch for improved safety against unauthorized modifications
- ⇒ Power on/off switch with detachable IEC connector on rear of amp, facilitating rack wiring
- ⇒ Dimensions: 483 (19") x 44/88 (1 ot 2 U) x 290 mm (w x h x d)
- ⇒ Net weight: AX 1121T: 7.8 kg, AX 1240T: 8,5 kg, AX 1400T: 8,5 kg
- ⇒ Case and chassis of heavy duty steel, powder coated front
- ⇒ European high quality product
- ⇒ **6 years warranty**



**Model AX 1240T, 240 Watts**



**Model AX 1400T, 400 Watts**

# 2 channel amplifier



**AX-T-Series:**  
professional amplifier with 100 V output



## Amplifier models AX-T series

- AX 2120T .....2 x 120 Watt<sub>RMS</sub>**
- AX 2240T .....2 x 240 Watt<sub>RMS</sub>**
- AX 2500T .....2 x 500 Watt<sub>RMS</sub>**



## Description

The axxent amplifier of the T series are optimized for PA systems with 100 V constant voltage distribution. The silent automatic fan ensures constant operation temperature. Various electronic safety circuitry with LED indicators protect your speakers and amplifier in cases of thermal overload or short circuit. When only little power is necessary, the fan automatically goes idle. The actual operation conditions, like on/off, signal present, signal peak levels (close to clipping) are monitored separately for each channel. The possible activation of a protection circuitry are indicated by LEDs. Inputs: XLR, balanced, outputs: touch proof binding posts. These amplifier models offer a cost effective solution for power requirements from 2 x 120 W to 2 x 500 W<sub>RMS</sub> at 100 V constant voltage. The newly designed ILM™-Technology steadily monitors the output current regarding short circuits. This protects the amplifier and avoids additional high pass filters.

## Features

- ⇨ Output power 2 x 120 W to 2 x 500 W @100 V constant voltage
- ⇨ Unique ILM™-Technology controls the output current and protects amplifier and loudspeakers
- ⇨ Inputs & loop-thru: XLR, outputs: touch proof binding posts
- ⇨ Quiet, automatically controlled fan, goes idle at little output power
- ⇨ Rack mounting with only 2 U height
- ⇨ Case and chassis made of high durable robust steel
- ⇨ European quality product
- ⇨ **6 years full warranty**

## Technical data

Output power (100 V, 1 kHz, 1% THD, RMS)  
 AX 2120T: 2 x 120 W; AX 2240T: 2 x 240 W; AX 2500T: 2 x 500 W  
 Input sensitivity..... 1 Volt  
 Input impedance.....20 kΩ, balanced  
 Total harmonic distortion (THD) ..... <.02% @1 kHz/-3 dB  
 Frequency response .....20-20 000 Hz (+0/-3 dB)  
 S/N ratio .....>100 dB

Output voltage ..... 100 V @ rated output  
 Cooling ..... automatic fan  
 Inputs/loop thru ..... XLR, balanced  
 Outputs ..... touch proof binding posts  
 Protection circuitry ..... LED indicators per channel  
 Power requirements ..... 230 VAC, 50/60 Hz  
 Size (W x H x D).....483 (Rack) x 88 (2 U) x 387 mm



# 2 channel power amplifier



## Features

- ⇒ 5 models with output power ranging from 2 x 75 to 2 x 800 W<sub>RMS</sub>
- ⇒ Unique ILM™-Technology steadily monitors and controls the output current and protects amplifier and loudspeakers
- ⇒ Inputs: Neutrik® Combo; outputs: Neutrik® Speakon™
- ⇒ Quiet, temperature controlled fan (idle when little power is needed)
- ⇒ Removable knobs for safety of operation and protection
- ⇒ Case and chassis made of stainless steel, powder coated
- ⇒ Quality product made in Europe
- ⇒ **6 years full warranty**

## axxent 2 channel power amplifier

These high quality amplifier models are primarily intended for use in fixed installations with low impedance distribution at a budget price. The quite fan is temperature controlled and automatically goes idle when only little output power is needed. Special safety circuitry is provided to protect loudspeakers and amplifier. The condition of operation and the activation of any protection circuitry is indicated by LEDs. Inputs are equipped with Neutrik™ Combos and the outputs with touch proof binding posts and with Neutrik™ Speakon connectors. The robust case and chassis are made of steel with a powder coated front panel. These amplifier models offer a cost effective solution for installations with output power requirements from 2 x 75 to 2 x 800 Watts RMS. The newly developed unique ILM™-technology steadily monitors and controls the output current, thereby protecting loudspeakers and amplifier against short circuits and a special high pass filtering becomes unnecessary. The power cord is detachable and equipped with a standard IEC connector.

## Power output

output power (rms)	AX-2075	AX-2150	AX-2300	AX-2500	AX-2800
(4 Ω, 1 kHz, 1% THD)	2 x 75 W	2 x 150 W	2 x 300 W	2 x 500 W	2 x 800 W

## Technical Data

Input sensitivity ..... 1 Volt  
input impedance ..... 20 kΩ, balanced  
Distortion (THD) ..... AX 2150: <.05%, other models: <.02%  
Frequency response (+0/-3 dB) ..... 20-55 000 Hz  
S/N ratio ..... >106 dB (20-20 000 Hz, A-rated)  
Cooling ..... quiet fan, automatically temperature controlled  
Inputs ..... Neutrik Combo™, balanced plus link out (XLR)  
Outputs ..... Neutrik Speakon™ & binding posts  
Protections ..... thermal overload, clipping, output current limiting  
LED indicators ..... on/off, signal present, activation of peak & protect  
Power requirements ..... 230 V AC, 50/60 Hz  
Size  
AX 2300, AX 2500, AX 2800 ..... 19" x 88 (2 U) x 387 mm (w x h x d)  
AX 2075 ..... 19" x 44 x 277 mm (w x h x d)  
AX 2150 ..... 19" x 88 (2 U) x 277 mm (w x h x d)  
Netweight ..... AX 2075: 6,5 kg, AX 2150: 9 kg, AX 2300: 12 kg  
AX 2500: 15 kg, AX 2800: 19 kg



# NOX series model SD 12



## Extremely light weight loudspeaker system

- **Light & handy! Total weight only 10,5 kg**  
*Easy handling and simple set-up, even under restricted weight load conditions*
- **Ideal solution when quick set-up is a must**  
*in a rig, on stands or for ceiling and wall mounting*
- **2-Way-System**  
*High performance 12"-low-/mid transducer with newly developed 1"-driver, ring diaphragm and „high loading conical wave guide“*
- **Special circuitry for low-/mid speaker**  
*improves sound and efficiency*
- **Full output power even at long cable runs**

### Description

In the past, when admitted weight load for speaker mounting was limited, the only solution was the use of small speakers. Now the newly developed advanced speaker system NOX SD 12 allows safe and easy installation of high performance speakers in the 12"/1" class – even when weight load is limited.

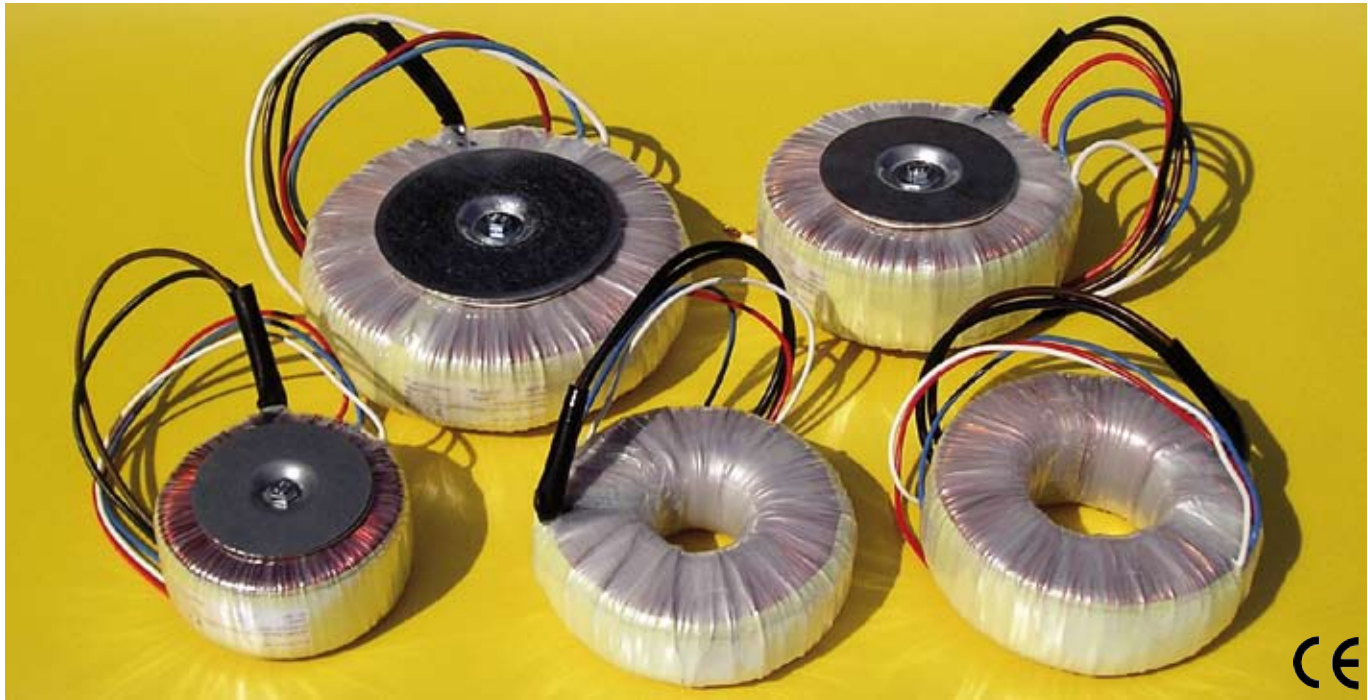
In mobile installations the easy handling and the low weight of merely 10 kg (incl. rigging accessories) leads to drastic cost reductions. The metal connection of all components insures highest possible safety. The pivot and tilting bar makes balanced mounting quick, while the permanent brakes allow the exact positioning of the SD 12 with just one hand. A special circuitry, integrated in the speaker, guarantees a high resolution wide range reproduction. It minimizes distortions and increases the maximum sound pressure level of the extremely efficient 12" low/mid transducer. The 1" high frequency driver with its ring diaphragm and a 44 mm voice coil optimises sound characteristics and delivers very high sound pressure levels. The Conical Wave Guide provides complete loading up to the crossover frequency and tightly controls the polar patterns. Thanks to its simple filtering the SD 12 can be used with a wide variety of commercial digital controllers.



### Technical Data

Loudspeaker type .....	12"/1", all purpose application
Net weight.....	10,5 kg
Frequency response.....	65-20 000 Hz, -10 dB ..... 80-20 000 Hz, ±3 dB
Polar pattern.....	80° horizontal/60° vertical
Crossover .....	Bi-Amp, active
Crossover frequency .....	1.5 kHz
Power (RMS/Progr./Peak).....	Bi-Amp LF: 500/1000/2000 W ..... Bi-Amp HF: 40/80/160 W
SPL (1 W/1 m) .....	LF: 100 dB (@ 120 Hz)
SPL (without EQ).....	HF: 114 dB
Nominal impedance.....	LF: 16 Ω; HF: 16 Ω
Active Crossover.....	any commercial digital controller
Construction .....	new aluminium GFK-bonding
Rigging .....	46 safe rigging points
Finish .....	Aluminium, matte/black
Connector .....	Neutrik Speakon™ NL-4
Dimensions (w x h x d).....	40 cm x 60 cm x 18 cm
Accessory .....	incl. safety, C-hook or ..... stand adapter on choice

*Other special mounting devices upon inquiry*



- ⇒ High quality toroid transformers for professional 70/100 V systems
- ⇒ Flat frequency response, low stray
- ⇒ Low transformer loss
- ⇒ Low profile compact size

## Toroid single transformer models with up to 800 Watts power

Versatile toroid audio transformers allow for high density packaging of multi channel amplifiers. Low impedance input signals are converted into a constant voltage output with up to 800 Watts power. All technical data and specifications of these high quality toroid transformers, especially their low stray, low distortion (THD) and linear frequency response, meet the highest demands of the contemporary professional audio industry. The electrically isolated primary and secondary windings comply with major international safety regulations.

	4 Ω to 70/100 V				
model	XF120TC	XF200TC	XF300TC	XF500TC	XF800TC
application					
power	120 W	200 W	300 W	500 W	800 W
load impedance 100/70 V	83.3/41.7 Ω	50.0/25.0 Ω	33.3/16.7 Ω	20.0/10.0 Ω	12.5/6.2 Ω
input impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
input voltage	for nom. 100/70,7 V				
output voltage @ 1 kHz	23.7/23.8 V	30.9/30.7 V	37.5/38.2 V	47.5/46.7 V	60.0/60.6 V
output voltage	@ 1 kHz & rated load				
impedance	100/70.7 V	100/70.7 V	100/70.7 V	100/70.7 V	100/70.7 V
peak power handling*	120/120 W	200/200 W	300/300 W	500/500 W	800/800 W
frequency response	@ 100 V, typ. (dB)				
50 Hz	-0.2/-0.2	-0.1/-0.1	-0.1/-0.1	-0.2/-0.2	-0.2/-0.2
1 000 Hz	±0	±0	±0	±0	±0
16 000 Hz	-0.8/-1.3	-1.0/-1.7	-2.7/-3.2	-2.0/-2.4	-1.8/-2.0
THD typical (%)	50 Hz				
	0.04/0.04	0.09/0.09	0.08/0.08	0.09/0.09	0.1/0.1
	1 000 Hz	0.05/0.05	0.05/0.05	0.04/0.04	0.05/0.05
	16 000 Hz	0.06/0.06	0.06/0.06	0.06/0.06	0.06/0.06
dimensions	(Diameter)				
	100 x 46	125 x 44	135 x 57	150 x 63	175 x 57
weight	1.15 kg	1.85 kg	2.70 kg	3.95 kg	5.10 kg

\*secondary side @ 50 Hz, rated load impedance

# Transformer Packs



## Toroid transformer 70/100 V



**High power audio transformer packs  
for up to 800 W; 4 Ω to 70/100 V  
2-/4-/6-/8-channel versions, toroid**



- ⇒ For professional PA applications
- ⇒ Transformer packs or single units
- ⇒ 120, 200, 300, 500, 800 W per channel

- ⇒ 2-/4-/6 or 8 channels in 19" racks (2U)
- ⇒ Separate prim.-/secondary windings
- ⇒ Touch proof binding posts

- ⇒ Matches intern. safety standards
- ⇒ High durable all steel 19" rack case
- ⇒ 2 U toroid

### The rack-mount transformer packs

Depending on the various models, these units allow conversion of 2, 4, 6 or 8 low impedance (4 Ohms) input signals into 70/100 Volts outputs, rated up to 800 Watts per channel. All technical data and specifications of these high quality transformers, especially their low distortion and linear frequency response, meet the highest demands of the contemporary professional audio industry. The toroid transformers guarantee a flat, wide frequency response and very low stray. All transformers are submersion impregnated and heat dried for mechanical stability and moisture resistance. The electrically separate primary- and secondary windings comply with all major international safety regulations. The rugged all-steel-case can house up to 8 transformers. The case does not bear any label or logo, so that the installer is free to fix his own label sticker. In addition to the "ready-to-install" units, an empty case for holding specific transformer combinations is also available. Any of the mentioned transformers may be used at random.

### Standard models

Model	Channel	Trafos	U
PT2120T	2	2 x 120 W	2
PT4120T	4	4 x 120 W	2
PT6120T	6	6 x 120 W	2
PT2200T	2	2 x 200 W	2
PT4200T	4	4 x 200 W	2
PT6200T	6	6 x 200 W	2

Model	Channel	Trafos	U
PT2300T	2	2 x 300 W	2
PT4300T	4	4 x 300 W	2
PT6300T	6	6 x 300 W	2
PT2500T	2	2 x 500 W	2
PT2800T	2	2 x 800 W	3
PT6000-2	empty case		2

*PT-BP-CE compatible touch proof binding posts*



*special version on request*

*Connectors: touch proof binding posts.*

*Size: (2 U) 482 x 88 x 370 mm (w x h x d)*

*(including rear mounting bracket kits)*



## Loudspeaker transformers with up to 500 W power

With these universal transformers a constant voltage input signal (100 V) with up to 500 Watts of power may be transformed into a loudspeaker impedance. The transformers may be mounted directly in the speaker enclosure. All technical data and specifications of these high quality transformers, especially their low distortion and linear frequency response, meet the highest demands of the contemporary

professional audio industry. The transformers are of the EI-core or toroid type and are precision wound in multiple interchanging layers for maximum frequency response. The electrically separate primary and secondary windings comply with all major international safety regulations. Connection: soldering taps or AMP-pins, toroidal models with open ended cable.

### TECHNICAL DATA

Model	EI-Core or toroid							Toroid				
	XE 015LS 100/8	XE 025LS 100/8	XE 025LSM 100/8	XE 030LS 100/8	XE 050LS 100/8	XE 060LS 100/8	XE 100LS 100/8	XF120 TCLS 100/8	XF200 TCLS 100/8	XF240 TCLS 100/8	XF300 TCLS 100/8	XF500 TCLS 100/8
Power (watts)	15	25	25,15,10	30	50	60	100 W	120 W	200 W	240 W	300 W	500 W
Load impedance 100 V	4/8 Ω	4/8 Ω	4/8 Ω	4/8 Ω	4/8 Ω	4/8 Ω	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω
Input impedance	459 / 430 Ω	329 / 311 Ω	325 / 500 / 820/8 Ω	270 / 230 Ω	163/153 Ω	135/124 Ω	87,5 Ω	69 Ω	41 Ω	35 Ω	26,5 Ω	16,5 Ω
Output voltage @ 1 kHz	10.8 / 7.9	14.35 / 10.1	14.0/10.8/8.5/0.8	16	20.1 / 14.3	22.2 / 15.8	28.0 V	30.9V	39.7V	44V	49V	63.1V
Peak power handling*	15.3 / 15.4	25.7 / 25.5	24.5/14.9/10.1	31/30.9	50.5/51.1	61.6/62.4	98.1	119	197	242	300	498
Frequency response**												
50 Hz	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.2
1 000 Hz	±0	±0	±0	±0	±0	±0	±0	±0	±0	±0	±0	±0
16 000 Hz	-0.7/1.2	-0.7/-1.2	-0.6/-0.2/-0.2	-0.7/-1.2	-1,-/-2.1	-1.8/3.2	-0.8	-1.1	-2.1	-1.2	-2.9	-2.6
Dimensions (w x h x d mm)	50 x 45 x 61	63 x 55 x 79	63 x 55 x 79	63 x 55 x 79	63 x 59 x 79	63 x 66 x 79	70 x 83 x 86	99 x 47	120 x 47	99 x 65	130 x 48	145 x 55
Weight (kg)	0.5	0.83	0.81	0.86	1.05	1.25	2.0	1.5	2.2	2.0	3.0	4.2

\*secondaryside @ 50 Hz rated load impedance

\*\*@ 100 V, typ. (dB)