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PA-4300DX

DIGITAL TRANSFORMERLESS POWER AMPLIFIER



without
transformer
4x300/
2x600W

24 VDC
1U
IEC 268-3

6 kg



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Fig.: PA-4300DX Front and rear view

PA-4300DX

Digital Transformerless 100 V Power Amplifier

4 X 300 / 2 X 600 WATT POWER SHARING 24 VDC 1U IEC 268-3 6KG LIGHT WEIGHT

Super light power pack: Digital transformerless power amplifier with 4 x 300W / 2 x 600W power / 100V through power sharing and a weight of only approx. 6 kg, power supply 230V/AC and 24VDC, 1U, IEC 268-3.

The **digital power amplifier PA-4300DX** is a transformerless 4-channel power amplifier with 4 x 300 watts or 2 x 600 watts power sharing performance according to IEC 268-3 in a 1U housing with a power supply of 230VAC and a backup power supply of 24VDC.

The **low weight of only approx. 6 kg** makes transport easier for fully equipped 19" cabinets (no on-site reconstruction necessary!) and enables a „one-man service“ for the installation and maintenance of the powerful system.

Each power amplifier module has a **separate audio input**. Each of these inputs can be assigned its **own LF signal**.

In addition, each amplifier module has its **own switching power supply**. In case of failure of e.g. a power amplifier block or a switching power supply, the remaining amplifier channels are thus not affected by the failure (**stand-alone design**).

The power amplifier has **floating and transformerless 4 x 100V**

direct outputs without the need for an output transformer.

On the rear of the power amplifier there are **error indicators and control contacts**: REMOTE, STAND-BY, FAULT-GND, FAULT-OUT and 2 x ground.

The power amplifier has **various protection circuits** such as short circuit protection, DC voltage protection, overload protection as well as protection against HF interference, fan monitoring with automatic switching off of the system in the event of impairment.

An **active standby circuit** ensures **low power consumption**. When fully operated, the power amplifier has an **efficiency of over 90%** and is therefore particularly **energy efficient**.

The power amplifier has a **fault output via potential-free contact**.

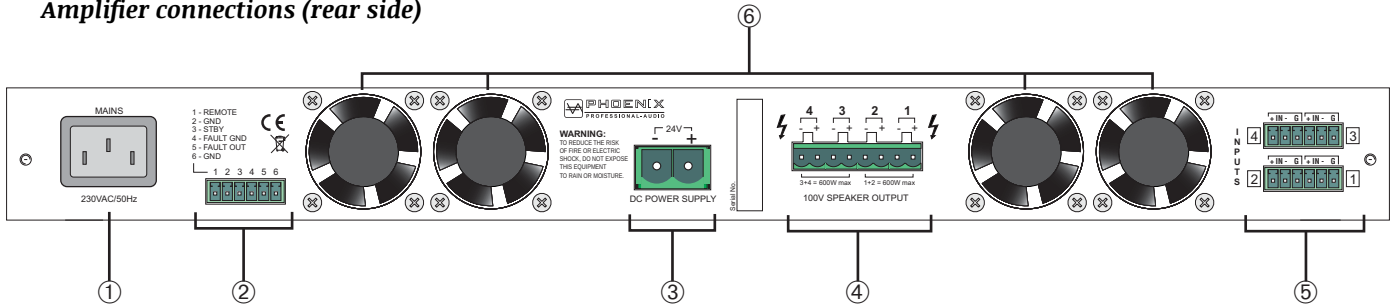
LED displays provide information about signal and operating states, such as Signal-In and Protect.

Four **thermo-controlled fans** ensure effective cooling of the amplifier with unrestricted continuous operation and full performance.



PA-4300DX - Continued from previous page

Amplifier connections (rear side)



- ① 230VAC input socket
- ② Control and fault signaling contacts
- ③ DC power supply terminal 24 V DC for channels 1 to 4
- ④ Speaker outputs, 100 V for channels 1 to 4
- ⑤ Signal inputs (4 x separate, balanced audio inputs)
- ⑥ Fans

The digital power amplifier PA-4300DX was developed specifically for use in the PA sector, such as sound reinforcement in office buildings, shopping centers, supermarkets, bars and public facilities, for operation with a 100V speaker line.

The devices comply with the Electromagnetic Compatibility Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC.



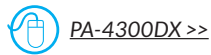
Technical Details	PA-4300DX
AC operating voltage	190-265V at 50/60Hz
DC operating voltage	21.5-28.5V
Dimensions	484 x 330 x 44 mm
Input sensitivity / impedance	760mV / 16k balanced
Frequency response	60Hz-24kHz (-3dB)
Max. output power	2 x 600 W (1.2kW), channels 1 and 3
Rated capacity	4 x 300W
Rated voltage output	100V
S/N ratio	> 85dB
Power supply	230VAC / 24VDC
Protection	High temperature, overload, Short circuit
Power consumption emergency power supply 24VDC	IDLE: 2.85 A REMOTE: 0.35A STBY: 1.28A
Power consumption emergency power supply 230VAC	IDLE: 0.75A REMOTE: 0.24A STBY: 0.35A
THD	<0.1% at 1kHz, 1/3 rated power
Weight	approx. 6kg

- Digital 100 V PA power amplifier
- Transformers without ground faults
- 4 x 300 W / 2 x 600 W (power sharing)
- Low height: 1 U
- Light weight: 6kg
- Easier transport for fully equipped 19" cabinets
- Thanks to the low weight of the device, a "one-man service" is possible for installation and maintenance
- Extremely powerful
- Energy saving thanks to active standby mode
- Efficiency of over 90% in full operation
- Output contact for error messages
- Power supply of 230VAC
- Backup power supply of 24VDC
- Suitable for systems acc. to EN 60849 (DIN 0828)
- Output power and protection circuits according to IEC 268-3
- Short circuit protection, DC voltage protection, overload protection, protection against RF interference, fan monitoring
- Thermo-controlled fans
- LED displays on the front: PROTECT, SIGNAL, OVERLOAD, GND FAULT, AC, DC

Fig. below: PA-4300DX, front and rear side



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