

DAA-2351 A

Digital Audio Power Amplifier 1x250 Watts

Made
in
Germany



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APPLICATION

- Public Address and Voice Alarm
- Background Music
- Audio Visual

AREA OF USE

- Health
- Education
- Retail
- Hospitality
- Stadiums
- Transportation
- Theme parks
- Military

OVERVIEW

The PADES® 2000 Digital Audio Power Amplifier DAA-2351 A is a professional fully supervised Class D 100V single power amplifier. The switching power supply integrated in the output stage block carries contributes to the additional optimization of efficiency.

The amplifier is utilizing transformerless technology. The unit has protective circuit against overheating and self excitation, a mains inrush current limit and inrush noise suppression; it is short-circuit-proof and idling-proof. All monitoring and protection functions are indicated by means of LCD on the front display.

The rear is fitted with RJ45 and Phoenix connectors. The DAA-2351 A has built-in slot for the Digital Amplifier Control Module, NF input Transformer for the channel. The technique is extremely energy-saving due to the high level of efficiency and is characterized by low heating of the components. By using the Digital Emergency Power Input Module, the DAA-2351 A can be operated with 24V emergency power. The Inbuilt Digital Audio Amplifier Control Module allows control and monitoring of the amplifier.

The digital selection is done with 2 function keys and a rotary encoder tactile function. The integrated, automatically activated device sleep mode enables energy consumption optimization. Operating state automatically reactivates within 50 µs after detection of user relevant events.

As a standard with professional audio equipment, the audio signal is connected via balanced inputs and outputs. In order to eliminate ground loops and other background noise, AF input transformers are installed in the active signal paths to

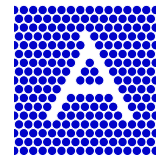
generate transformer-symmetrical, i.e. galvanically isolated signal transmission.

The HF shielding module protects the electronic components with system-grounded ones shielding effectively against high-frequency electromagnetic radiation.

The digital programmable matrix relay module DMS-2021 A switches 10 separate 100V signals on all poles for controlling the speaker lines. A 10-channel output load distribution matrix in service-friendly plug-in technology and a slot for the digital line measurement are integrated. The internal controller with a 32-bit 100 MHz processor communicates via CAN interface and 2 RJ-45 system connection sockets with the higher-level system for automatic configuration and data transmission, as well as for permanent self-monitoring. The switching state of the 10 freely programmable Relay is indicated by LED. Each line is impedance monitored against short and open circuit.

The digital line measurement module DMS-2022 A, in connection with a DMS-2021 A, offers the possibility of measuring each individual loudspeaker line in defined, minute-pre-selectable measurement intervals. The measuring tolerance can be set per line in 1% increments up to 25%.

PADES [®] 2000-Series



TECHNICAL DATA

Amplifier Data	
Output power (Program/RMS)	1 X 375/250W
Input sensitivity	1 x 1V, 10k Ohm, balanced
Frequency range	20 - 20,000 Hz
Signal -to- noise ratio	> 91 dB
Crossover attenuation	85 dB
Distortion	<0.29%
Power supply (main supply)	220-240 VAC, 50/60 Hz
Emergency input voltage	24V DC
Dimensions (W x H x D)	483 x 88 x 330 mm (2U)

Digital-Programmable - Matrix - Relay - Module (DMS-2021A)	
Power supply	24V DC
Current consumption	200 mA
Interface	2 x RJ45 (CAN)
Number of relay	10
Contact per relay	2x
Switching capacity	Max. 600 VA
Weight	353g
Dimensions (W x H x D)	155x 30 x 125 mm (Rail mount)

Digital-Line - Matrix - Measurement - Module (DMS-2022A)	
Power supply	24V DC
Current consumption	100 mA
Weight	170 g
Dimensions (W x H x D)	150 x 36 x 42 mm (Rail mount)

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