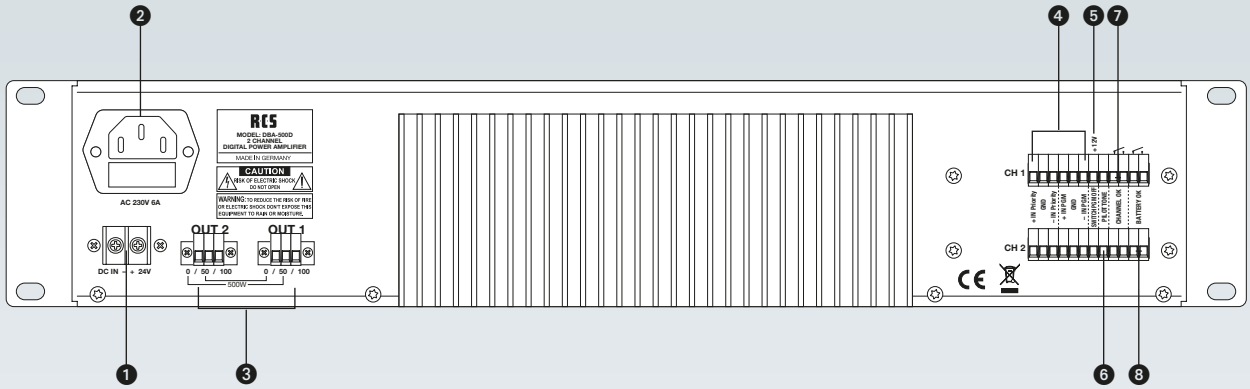
DIGITAL 100V-POWER AMPLIFIER

Rear view



1. DC-power supply terminal 24 V
2. IEC power inlet (cold condition)
3. Speaker outputs 50 and 100 V
   at DBA-500 D for 500 W operation - Output 1 and 2 turn into series
4. Balanced inputs,
   at 500 W operation (DBA-500 D) actuate Input 1 and 2 combined
5. Switch PGM OFF: Turns off the program input and activates the Priority input
6. Input for pilot tone signal
7. Failure indication output if notice of malfunction or defect of the amplifier
8. Failure indication output if emergency power supply is missing

Technical data	DBA-250 D	DBA-500 D
Output power	375W/250 W (program/RMS)	750W/500 W (program/RMS) or 2x375W/2x250 W (program/RMS)
Input sensitivity	1V, 10 kohms, balanced	
Output voltage	50 V or 100 V	
Frequency range	70 ~ 20.000 Hz (better than -3 dB)	
Signal-to-noise-ratio	better than 91 dB	
THD at 1 kHz	better than 0,29%	better than 0,2%
External voltage distance	85 dB 1kHz	
Power consumption	Sine signal-380 W, no-load-18 W, standby 7 W	Sine signal-770 W, no-load-35 W, standby 9 W
Current consumption (230 V AC)	Sine signal-1,7 A, active 0 W Out-0,09 A, standby-0,034 A	Sine signal-4 A, active 0 W Out-0,15 A, standby-0,048 A
Current consumption (24 V DC)	Sine signal-14 A, acive 0 W Out-0,3 A, standby-0,06 A	Sine signal-27 A, active 0 W Out-0,5 A, standby-0,12 A
AC power supply	230 V AC, 50 – 60 Hz	
DC power supply	24 V DC (emergency power supply)	
Dimensions (WxHxD)	483 x 88 x 256; 2 RU	
Weight	approx. 13,8 kg	approx. 16,2 kg

DIGITAL 100V POWER AMPLIFIER

WITH SYSTEM EN 54-16 CERTIFIED

DBA-250D
250 W

DBA-500D
500 W

MADE IN GERMANY

Digital 100V Power Amplifier according to IEC 268-3 with over 90% degree of efficiency

energy-saving

Fanless cooling!

Description

With this digital 100V Power Amplifier we do contribute to the protection of our climate and therefore the protection of our natural habitat. This device uses energy in a sensible manner and is part of an advanced technology development.

The advantages of digital power amplifiers can be found regarding a much improved degree of efficiency of over 90% compared to other analogue amplifiers with approx. 70%.

The out come of that the lost heat is way less, which is positive for the durability of the amplifiers and also for the complexity of the cooling of 19˝ racks.

Please consider the following features:

- Pilot tone inputs and malfunction message contacts for emergency power and the power amplifier predestine this amplifier for 100V technology according to VDE 0828/IEC 50849.
- In case no signal is present, the amplifier automatically switches to standby and then only spends 9.9VA, if the signal is pending, e.g. in case of an emergency the amplifier will be ready for operation within 30 ms.
- These amplifiers are manufactured according to the latest assembly methods with high-quality components and are therefore perfectly suitable for professional continuous operation in 100V alarming systems.
- The battery capacity for emergency power operation is notably less than with analogue amplifiers.
- Output power and protection circuits according to IEC-268-5
- The LED indicators on the front panel give information on important signal and operation status.
- Cooling takes place maintenance free without ventilation, which means that there will be no pollution and no follow-up costs. This device is therefore especially suitable for noise sensitive environments (offices, churches, conference rooms, etc.).
- Special protective circuits preventing engine idling, short circuit, over heating and an input delay are a matter of course.
- Other distinctive features: low installation depth of only 260 mm and countersunk volume controls.
- The devices have loudspeaker outputs and symmetrical inputs on screw-type connectors, whereby the wiring complexity is reduced significantly.
- The inputs can be optionally equipped with input transformers. In this case please order as option the TSE-203.

★

+ Degree of efficiency of over 90%
+ Energy saving
+ Automatic standby mode
+ Low heat waste
+ Low battery capacity necessary

Model designations

1-Channel Power Amplifier, ... **DBA-250D**
250 W RMS, (2 RU)

1- or 2-Channel Power Amplifier, ... **DBA-500D**
500 W or 2x 250 W RMS, (2 RU)