

LSA-2000 / LSA-3400 / LSA-4000

SWITCHING POWER AMPLIFIER

LSA-2000 with **bridge circuit, limiter** and switchable input **high-pass filter**

LSA-3400 and LSA-4000 **stable at 2 ohms, with input parallel connection, limiter** and input **high-pass filter**



● SOFT START

The amplifiers feature “soft start” as well as switch-on and -off delay in order to conserve the loudspeakers and avoid switching and cracking noises.

● PROTECTIVE CIRCUITS

The LSA series has protective circuits against short circuit and overheating as well as current limitations, switch-on/-off delay, DC voltage fault protection and a clip limiter circuit against overstressing the loudspeakers.

● PERFECT COOLING SYS.

The amplifiers are equipped with ball-bearing, automatic cooling fans (two on the LSA-2000, four on the LSA-3400 / LSA-4000), which automatically adapt their speed depending on the amplifiers’ strain. The air duct, embedded in the casing, provides excellent cooling in connection with the fans and ventilation slots.

● MODERN DESIGN

The switching power amplifiers of the LSA series feature a modern and functional design and are economically structured in 19” technology (2 RU). They are suited best for demanding application and show, even at full strain, no sign of stress.

● INFORMATIVE DISPLAY

The front panel of the LSA series is designed in such a way, that any important information on the current operating status is indicated optically all the time.

These LED displays are: power, clip, protect, signal as well as mono/parallel.

● ACTIVE SWITCHING

In the LSA series, output stages with switching power supply are used. Depending on the strain, the switching power supply picks up the accordant amount of electricity.

● STABLE AT 2 OHMS

The amplifiers LSA-3400 and LSA-4000 are designed for highest requirements and therefore may also be operated with 2 ohms.

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Model designations

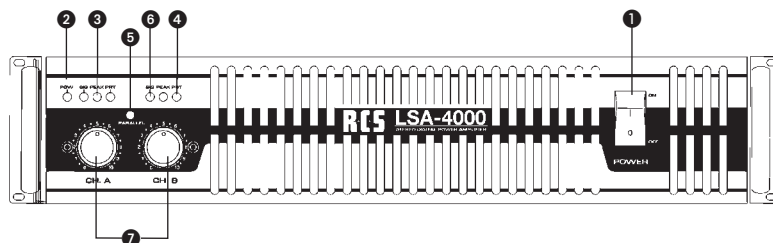
STAGE-SOUND Amplifier, 2x 1000 W max. output **LSA-2000**

STAGE-SOUND Amplifier, 2x 1700 W max. output **LSA-3400**

STAGE-SOUND Amplifier, 2x 2000 W max. output **LSA-4000**

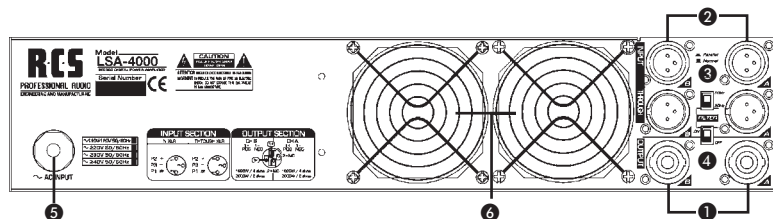
FRONT VIEW

- 1 Power On/Off switch**
For switching the device on and off
- 2 Power LED display**
Lights up when the device is switched on
- 3 Peak LED display**
Lights up at signal overload
- 4 Protect LED display**
Lights up at switch-on or fault
- 5 Parallel mode LED display**
For indicating the desired operation input mode parallel / normal
- 6 Signal LED display**
Lights up at an amplification of 100mV and more
- 7 Input level control**
For adjusting the volume



REAR VIEW

- 1 LS outputs**
Loudspeaker connections over speak-on
- 2 XLR inputs**
Signal input and link over XLR
- 3 Parallel mode switch**
For adjusting the input mode between parallel or normal
- 4 Input filter (low-cut filter)**
Switchable low-cut filter with frequency selector switch between 30 Hz and 50 Hz
- 5 AC mains connection**
LSA-2000 with safety plug, LSA-3400 and LSA-4000 with open ends
- 6 Cooling fans**
Electronically regulated cooling fans



| Technical data | LSA-2000 | LSA-3400 | LSA-4000 |
|---|---------------------------------------|----------------------------|----------------------------|
| Output power (1 kHz, 1 % THD) | 2 ohms – 2 channels | -- | 2 x 1700 W |
| | 4 ohms – 2 channels | 2 x 1030 W | 2 x 1300 W |
| | 8 ohms – 2 channels | 2 x 650 W | 2 x 900 W |
| Output power (1 kHz, 0.1 % THD) | 2 ohms – 2 channels | -- | 2 x 1680 W |
| | 4 ohms – 2 channels | 2 x 1000 W | 2 x 1250 W |
| | 8 ohms – 2 channels | 2 x 600 W | 2 x 850 W |
| | 8 ohms / bridged | 1 x 2000 W | -- |
| Frequency response | 20 – 30.000 Hz +0 / -1 dB | | |
| THD (ref. 1 kHz, f = 20 Hz-20,000 Hz) | ≤ 0.05% | | |
| Input sensitivity at 4 ohms / 8 ohms stereo | +4.0 dBu (1.23 V) / +5.1 dBu (1.23 V) | | |
| Input impedance | 6 kohms (unbal.) / 12 kohms (bal.) | | |
| Signal-to-noise ratio | ≥ ≤ 104 dB | ≤ 107 dB | ≤ 107 dB |
| Crosstalk | ≥ ≤ 63 dB, 1 kHz | ≤ 64 dB, 1 kHz | ≤ 64 dB, 1 kHz |
| Damping factor (8 ohms / 1 kHz) | ≥ ≤ 500 | | |
| Power supply | 220V – 240V/AC, 50-60 Hz | | |
| Input power | 2800 W | 3800 W | 4100 W |
| Dimensions (W x H x D) / Weight | 483 x 88 x 460 mm; 13.9 kg | 483 x 88 x 495 mm, 16.6 kg | 483 x 88 x 495 mm, 17.8 kg |