

# Amplifier A 100

## Technical data:

<b>Output power (on 4 Ohm):</b>	
<b>Sine wave output:</b>	2 x 50 W
<b>Music power:</b>	2 x 80 W
<b>Transmission range:</b>	
<b>Linear inputs:</b>	12 Hz-50 kHz (18 Hz-30 kHz) (-3 dB)
<b>Equalized inputs:</b>	to RIAA ( $\pm 1.5$ dB)
<b>Distortion factor:</b>	
<b>At rated output:</b>	0.3 (< 0.4) %
<b>At 50 mW:</b>	0.1 (< 0.2) %
<b>Output bandwidth:</b>	10 Hz-70 kHz (20 Hz-50 kHz)
<b>Intermodulation:</b>	0.85 (< 1.5) %
<b>Attenuation factor:</b>	200 (> 100) (from 20 Hz-20 kHz)
<b>Signal-to-noise ratio:</b>	
<b>Unweighted signal-to-noise ratio (50 mW):</b>	
<b>Phono:</b>	63 (> 58) dB
<b>Aux:</b>	63 (> 58) dB
<b>Tape:</b>	63 (> 58) dB
<b>Tuner:</b>	63 (> 58) dB
<b>Weighted signal-to-noise ratio (50 mW):</b>	
<b>Phono:</b>	66 (> 60) dB
<b>Aux:</b>	66 (> 60) dB
<b>Tape:</b>	66 (> 60) dB
<b>Tuner:</b>	66 (> 60) dB
<b>Differences in propagation ratio of both stereo channels:</b>	< 1 dB

## Cross-talk attenuation (at 1 kHz):

<b>Phono:</b>	54 (> 50) dB
<b>Aux:</b>	51 (> 50) dB
<b>Tape:</b>	52 (> 50) dB
<b>Tuner:</b>	58 (> 50) dB

## Input sensitivity (at 1 kHz):

<b>Tone control linear</b>	
<b>Phono:</b>	3 mV/47 kOhm
<b>Aux:</b>	150 mV/47 kOhm
<b>Tape:</b>	150 mV/470 kOhm
<b>Tuner:</b>	150 mV/470 kOhm

## General data:

<b>Mains supply:</b>	220 V 50 Hz (260 W max.)
<b>Fuses:</b>	Mains: T 1.4 A (slow-blow) Output stages: T 3.15 A (x 4) (slow-blow) Stabilizer: T 315 mA (slow-blow)
<b>Complement:</b>	6 IC 29 Transistors 29 Diodes of which 11 LEDs 1 Rectifier
<b>AF switch:</b>	2 function switch Duo-Selector Loudspeaker OFF Loudness and Mono (pull-out switch)
<b>Controls:</b>	Volume Balance Treble
<b>Special features:</b>	2-way programme selection with Duo-Selector Integrated Life Sound Recording circuit

## Balancing and adjusting instructions

### 1. Closed-circuit current adjustment in the output stage

With the amplifier switched off, connect an ammeter across fuses S 252 RIGHT (rechts) and S 252 LEFT (links). Remove the fuses, switch on the amplifier (with no signal, both source switches to TAPE, volume control turned down), an using R 313 (R) and R 313 (L), adjust the closed-circuit current to approx. 55 mA. Subsequently replace the fuses. To eliminate thermal variation effects, the closed circuit current adjustment should be made after approx. 2 minutes of operation.

### 2. Gain

Turn the volume control fully up, balance control pressed in at centre, treble and bass controls both to mid-position. Feed an AF signal of 1000 Hz, 105 mV to TAPE socket. Using R 314 (R) and R 314 (L), set the output voltages (speaker socket) to 10 V each.

### 3. LSR

**Caution:** This adjustment should be made in the customer's home with the loudspeakers connected up. Since they are positioned on the underside of the amplifier housing, both the adjustment controls can be operated from outside with a screwdriver or by hand. Switch the amplifier to LSR. Connect stereo headphones to the headphone socket. Set the balance control to 'right' (rechts) and using the front regulator R 28 (R) adjust for minimum hum interference (by ear); repeat the process with the balance control set to 'left' (links) and using the rear regulator R 28 (L). Please note that whilst balancing, any nearby interference sources (e. g., television set) should also be switched on.

# Amplificateur A 100

## Caractéristiques techniques:

<b>Puissance de sortie (sur 4 ohms):</b>	
<b>Puissance sinusoïdale:</b>	2 x 50 watts
<b>Puissance musicale:</b>	2 x 80 watts
<b>Bande passante:</b>	
<b>Entrées linéaires:</b>	12 Hz-50 kHz (18 Hz-30 kHz) (-3 dB)
<b>Entrées à correcteur de distorsion:</b>	selon RIAA ( $\pm 1,5$ dB)
<b>Facteur de distorsion:</b>	
<b>à la puissance nominale:</b>	0,3 (< 0,4) %
<b>à la puissance 50 W:</b>	0,1 (< 0,2) %
<b>Bande passante de puissance:</b>	10 Hz-70 kHz (20 Hz-50 kHz)
<b>Intermodulation:</b>	0,85 (< 1,5) %
<b>Taux d'amortissement:</b>	200 (> 100) (de 20 Hz à 20 kHz)
<b>Rapport signal/bruit:</b>	
<b>Protection contre les interférences (50 mW):</b>	
<b>Phono:</b>	63 (> 58) dB
<b>Aux:</b>	63 (> 58) dB
<b>Tape:</b>	63 (> 58) dB
<b>Tuner:</b>	63 (> 58) dB
<b>Rapport signal/bruit de fond (50 mW):</b>	
<b>Phono:</b>	66 (> 60) dB
<b>Aux:</b>	66 (> 60) dB
<b>Tape:</b>	66 (> 60) dB
<b>Tuner:</b>	66 (> 60) dB
<b>Différence de niveau de transmission entre les deux canaux stéréo:</b>	< 1 dB

## Amortissement de diaphonie (à 1 kHz):

<b>Phono:</b>	54 (> 50) dB
<b>Aux:</b>	51 (> 50) dB
<b>Tape:</b>	52 (> 50) dB
<b>Tuner:</b>	58 (> 50) dB

## Sensibilité d'entrée (à 1 kHz):

<b>Réglage de tonalité linéaire</b>	
<b>Phono:</b>	3 mV/47 kOhm
<b>Aux:</b>	150 mV/47 kOhm
<b>Tape:</b>	150 mV/470 kOhm
<b>Tuner:</b>	150 mV/470 kOhm

## Informations générales:

<b>Branchement secteur:</b>	220 V 50 Hz (260 W max.)
<b>Fusibles:</b>	Secteur: T 1,4 A Etages de sortie: T 3,15 A (4 x) Stabil: T 315 mA
<b>Equipement:</b>	6 circuits intégrés 29 transistors 29 diodes dont 11 LED's 1 redresseur
<b>Commutateurs BF:</b>	2 interrupteurs de fonctions Duo-selector Interrupteur des haut-parleurs Volume et reproduction-mono (interrupteur à tirette)
<b>Potentiomètres:</b>	Volume Balance Basses Aigus
<b>Particularités:</b>	Double choix de programmation grâce au Duo-Selector Système d'enregistrement «scènes vivantes» LSR incorporé.