

RANGE OF SINGLE AND DUAL ZONE MIXER AMPLIFIERS FROM 30W TO 120W •

FOUR BALANCED INPUTS FOR MICROPHONE OR LINE •

SELECTABLE PRIORITY AND VOX SWITCHING ON MICROPHONE INPUT 1 •

OPTIONAL 2-TONE CHIME TO PRECEDE ANNOUNCEMENTS •

SEPARATE OVERRULING EMERGENCY INPUT WITH VOX •

CHOICE OF CD, TUNER OR AUXILIARY MUSIC INPUTS •

**PLENA mixer amplifier LBB1903/x0,  
LBB1906/x0, LBB1912/x0 and LBB1914/x0**

The PLENA mixer amplifier is a high performance, versatile four microphone inputs mono mixer amplifier, capable of fulfilling a wide variety of public address requirements for surprisingly low cost. A wide choice of input connectors are available: balanced 3-pin XLR and phone jack for microphones, 5-pin DIN for a priority microphone, and stereo Cinch for music sources (converted to mono). All microphone inputs have phantom power supply to provide power to condenser microphones and selectable speech filters for improved intelligibility. Microphone inputs 3 and 4 can also be switched to line sensitivity. Furthermore separate music inputs with their own input selector and volume control are available.

By internal selection, microphone input 1 can be given priority over all other microphone and music inputs. Priority is given upon contact closure on the 5-pin DIN connector or if the signal level on input 1 exceeds a predefined value (VOX). A 2-tone chime can be selected to precede a priority announcement, on priority contact closure.

A telephone or emergency input with VOX activation is provided that takes overall priority, even over microphone 1. It has its own preset volume control, which is independent of the master volume.

An interconnection input and output facilitates the connection of external sound processing equipment, such as an equaliser or acoustic feedback suppressor between the pre-amplifier section and the power-amplifier. A tape output is provided and a LED VU-meter allows for monitoring of the master output.



**LBB 1903/x0, LBB 1906/x0  
LBB 1912/x0, LBB 1914/x0**

PLENA MIXER AMPLIFIER

The PLENA mixer amplifiers come in a range of output powers, 30W (LBB1903/x0), 60W (LBB1906/x0) or 120W (LBB1912/x0). This power is available on 70V and 100V constant voltage outputs and on a low impedance output for 80hm load. The LBB1914/x0 offers the same functionality as the LBB1912/x0 but also has two front panel switches to direct the amplifier output to two separate zones, a useful feature if some announcements or background music should only be heard in part of a building. Additional PLENA power amplifiers (LBB1930/x0 with 120W output power or LBB1935/x0 with 240W) can be connected in a loopthrough arrangement to the balanced line output if more output power is needed than the built-in power stage can deliver.

# LBB 1903/x0, LBB 1906/x0, LBB 1912/x0, LBB 1914/x0

## PLENA MIXER AMPLIFIER

### ELECTRICAL

<b>Mains voltage</b>	230Vac/240Vac, ±10%, 50/60Hz (LBB 19xx/00 versions) 110Vac, ±10%, 50/60Hz (LBB 19xx/50 versions)
<b>Max mains power consumption</b>	100VA (LBB1903/x0) 200VA (LBB1906/x0) 400VA (LBB1912/x0, LBB1914/x0)
<b>Battery voltage</b>	24Vdc, +20%/-10%
<b>Max battery current</b>	1.6A (LBB1903/x0) 3A (LBB1906/x0) 6A (LBB1912/x0, LBB1914/x0)
<b>Max/rated output power</b>	45W/30W (LBB1903/x0) 90W/60W (LBB1906/x0) 180W/120W (LBB1912/x0, LBB1914/x0)
<b>Rated output power (battery)</b>	15W (LBB1903/x0) 30W (LBB1906/x0) 60W (LBB1912/x0, LBB1914/x0)

### PERFORMANCE

<b>Frequency response</b>	50Hz – 20kHz (+1/-3dB, @ -10dB ref. rated output)
<b>Distortion</b>	<1% @ rated output power, 1kHz
<b>Bass control</b>	-8/+8dB @ 100Hz
<b>Treble control</b>	-8/+8dB @ 10kHz

### INPUTS

Input 1 (5-pin DIN, balanced with phantom power, 6.3mm phone jack)

Input 2 (3-pin XLR, balanced with phantom power, 6.3mm phone jack)

<b>Sensitivity</b>	1mV
<b>Impedance</b>	>1kOhm
<b>S/N (flat at max volume)</b>	60dB
<b>S/N (flat at min volume/muted)</b>	>75dB
<b>Headroom</b>	>25dB
<b>Speech filter</b>	-3dB @ 315Hz, high-pass, 6dB/oct
<b>Phantom power supply</b>	16V via 1.2kOhm
<b>VOX (input 1 only)</b>	attack time 150ms release time 2s

Input 3,4 (3-pin XLR, balanced with phantom power, 6.3mm phone jack)

<b>Sensitivity</b>	1mV (microphone), 200mV (line)
<b>Impedance</b>	>1kOhm
<b>S/N (flat at max volume)</b>	>60dB
<b>S/N (flat at min volume/muted)</b>	>75dB
<b>Headroom</b>	>25dB
<b>Speech filter</b>	-3dB @ 315Hz, high-pass, 6dB/oct
<b>Phantom power supply</b>	16V via 1.2kOhm

Music input (Cinch, stereo converted to mono)

<b>Sensitivity</b>	200mV
<b>Impedance</b>	22kOhm
<b>S/N (flat at max volume)</b>	>70dB

<b>S/N (flat at min volume/muted)</b>	>75dB
<b>Headroom</b>	>25dB
<b>Emergency/telephone (Screw, balanced)</b>	
<b>Sensitivity</b>	100mV – 1V adjustable
<b>Impedance</b>	>10kOhm
<b>VOX</b>	threshold 50mV attack time 150ms release time 2s
<b>S/N (flat at max volume)</b>	>65dB

Interconnection (Cinch)

<b>Nominal level</b>	1V
<b>Impedance</b>	>10kOhm

### OUTPUTS

Master output (3-pin XLR, balanced)

<b>Nominal level</b>	1V
<b>Impedance</b>	<100Ohm

Tape output (Cinch, 2 x mono)

<b>Nominal level</b>	350mV
<b>Impedance</b>	1.5kOhm

Interconnection (Cinch)

<b>Nominal level</b>	1V
<b>Impedance</b>	<100Ohm

Loudspeaker outputs (Screw, floating)

<b>70V/100V output</b>	30W rated (LBB1903/x0) 60W rated (LBB1906/x0) 120W rated (LBB1912/x0, LBB1914/x0)
<b>8Ohm output</b>	16V (30W) (LBB1903/x0) 22V (60W) (LBB1906/x0) 31V (120W) (LBB1912/x0, LBB1914/x0)

### ENVIRONMENTAL CONDITIONS

<b>Operating temperature range</b>	-10 to +45°C
<b>Storage temperature range</b>	-40 to +70°C
<b>Relative humidity</b>	<95%

### GENERAL

<b>EMC emission</b>	acc. to EN 55103-1
<b>EMC immunity</b>	acc. to EN 55103-2
<b>Acoustic noise level of fan</b>	<40dB SPL @ 1m (LBB1912/x0 and LBB1914/x0 only)
<b>Dimensions</b>	100 x 430 x 270 mm (19" wide, 2U high)
<b>Weight</b>	approx. 5kg (LBB1903/x0) approx. 8.5kg (LBB1906/x0) approx. 10.5kg (LBB1912/x0, LBB1914/x0)
<b>19" mounting brackets</b>	LBC1901/00, to be ordered separately



# PHILIPS

*Let's make things better.*