

- 120W AND 240W BOOSTER AMPLIFIERS IN COMPACT 2U-HOUSING •
- 70V/100V AND 8OHM OUTPUTS •
- BALANCED LINE INPUT AND LOOPTHROUGH OUTPUT •
- 100V INPUT FOR SLAVE OPERATION ON 100V SPEAKER LINE •
- TEMPERATURE CONTROLLED FAN FOR HIGH RELIABILITY •
- MAINS AND BATTERY BACK-UP OPERATION •



**PLENA booster amplifier LBB1930/x0 and LBB1935/x0**

In the PLENA series currently two types of booster amplifiers are offered: the LBB1930/x0 is a 120W booster amplifier and the LBB1935/x0 is a 240W booster amplifier. Both are high performance mono amplifiers capable of fulfilling a wide variety of public address requirements for surprisingly low cost. They use the same compact 19", 2U high housing for table-top use and rack mounting. A temperature controlled fan ensures high reliability at high output power and low acoustic noise at lower output power.

The amplifiers have 70V and 100V outputs for constant voltage loudspeaker systems and a low impedance output for 8Ohm loudspeaker loads. The amplifiers are protected against overload and short circuits.

A balanced loopthrough connector arrangement facilitates easy connection of multiple booster amplifiers to increase the available output power. An additional 100V line input is provided to connect the booster amplifier to a 100V loudspeaker line, for additional output power e.g. on remote locations. Sensitivity or level control is on the rear of the unit to avoid accidental setting change. A VU-meter with LED-bar shows the output level.

These booster amplifiers operate both on mains power and on 24V battery power supply for emergency backup.

**LBB 1930/x0, LBB 1935/x0**

PLENA BOOSTER AMPLIFIER

# LBB 1930/x0, LBB 1935/x0

PLENA BOOSTER AMPLIFIER

## ELECTRICAL

<b>Mains voltage</b>	230Vac/240Vac, ±10%, 50/60Hz (LBB 193x/00 versions) 110Vac, ±10%, 50/60Hz (LBB 193x/50 versions)
<b>Max mains power consumption</b>	400VA (LBB1930/x0) 800VA (LBB1935/x0)
<b>Battery voltage</b>	24Vdc, +20%/-10%
<b>Max battery current</b>	6A (LBB1930/x0) 11A (LBB1935/x0)
<b>Max/rated output power</b>	180W/120W (LBB1930/x0) 360W/240W (LBB1935/x0)
<b>Rated output power (battery)</b>	60W (LBB1930/x0) 120W (LBB1935/x0)

## PERFORMANCE

<b>Frequency response</b>	50Hz – 20kHz (+1/-3dB, @ -10dB ref. rated output)
<b>Distortion</b>	<1% @ rated output power, 1kHz
<b>S/N (flat at max volume)</b>	>80dB: (LBB1930/x0) >85dB: (LBB1935/x0)

## INPUTS

### Line input (3-pin XLR, 6.3mm phone jack, balanced)

<b>Sensitivity</b>	1V
<b>Impedance</b>	20kOhm

### 100V input (Screw, unbalanced)

<b>Sensitivity</b>	100V
<b>Impedance</b>	330kOhm

## OUTPUTS

### Line loopthrough output (3-pin XLR, 6.3mm phone jack, balanced)

<b>Nominal level</b>	1V
<b>Impedance</b>	direct connection to line input

### Loudspeaker outputs (Screw, floating)

<b>70V/100V output</b>	120W rated (LBB1930/x0) 240W rated (LBB1935/x0)
<b>8Ohm output</b>	31V (120W) (LBB1930/x0) 44V (240W) (LBB1935/x0)

## ENVIRONMENTAL CONDITIONS

<b>Operating temperature range</b>	-10 to +55°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>	<45dB SPL @ 1m
<b>Dimensions</b>	100 x 430 x 270 mm (19" wide, 2U high)
<b>Weight</b>	approx. 10.5kg (LBB1930/x0) approx. 12.5kg (LBB1935/x0)
<b>19" mounting brackets</b>	included

