



DX700B

BUILT-IN AMPLIFIER



DX-Series Built-in Amplifiers for PA Speaker Systems

- D class power amplifier
- Switching power supply
- Power factor corrector (optional)
- Forced cooling system
- Detachable power cord
- Analog input section, acting as crossover, EQ, limiting and speaker overload
- Line inputs – 2 x XLR
- Line outputs (parallel to line inputs) – 2 x XLR
- High pass filter
- Polarity switch (Norm/Rev)
- Input level control
- Cutoff frequency control (LPF)
- Overload and short-circuit protection
- DC output protection
- Thermal protection
- Soft signal start

Application:

Built-in amplifier for use in low-frequency loudspeakers (subwoofers).

Versions of amplifiers:

for 4 Ohms speaker impedance – **DX700B-4**
for 8 Ohms speaker impedance – **DX700B-8**

Power Rating *:

– DX700B-4 **700/380 W** (4/8 Ohms)
– DX700B-8 **700 W** (8 Ohms)

Frequency Range ** **45 Hz – 350 Hz**

Total Harmonic Distortions **<0.05 %**

Slew Rate **20 V/μs**

Damping Factor **200** (200 Hz, 8 Ohms)

Signal-to-Noise Ratio **98 dB** (unweighted)

Sensitivity ** **775 mV**

High Pass Filter Cutoff Frequency ** **45 Hz, 24 dB/octave**

Low Pass Filter Adjustment Range **80 – 350 Hz, 12 dB/octave**

Power Requirements **~230 V, 50/60 Hz**

Weight:

– DX700B **3.8 kg**
– DX700B PFC **4.1 kg**

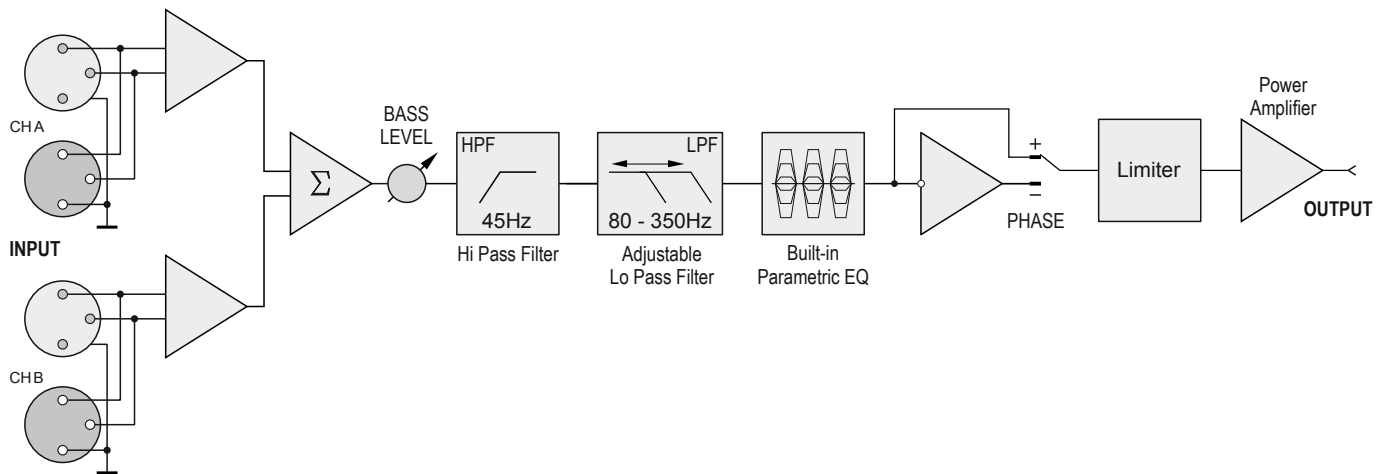
Dimensions **198 mm x 408 mm x 104 mm**

Note.

* For mains voltage:
– ~230 V for amps without PFC;
– ~160-280 V for amps with PFC.

** Basic model.

AMPLIFIER BLOCK DIAGRAM



MECHANICAL DRAWING

