# BUILT-IN AMPLIFIER DX2100T

DX-Series Built-in Amplifiers for PA Speaker Systems

***Application:***
*Built-in amplifier for*
*subwoofer + 2 satellites configuration.*

***Versions of amplifiers:***
*for 4 Ohms speaker impedance – **DX2100T-4***
*for 8 Ohms speaker impedance – **DX2100T-8***


- D class power amplifier
- Switching power supply
- Power factor corrector (optional)
- Forced cooling system
- Detachable power cord
- MONO-STEREO mode
- MONITOR mode
(one of the satellite channels is used as a monitor amplifier)
- STEREO-MONO-MONITOR mode switch
- LEFT and RIGHT line inputs – 2 x XLR
- LEFT and RIGHT line output – 2 x XLR
(parallel to line inputs)
- Satellite channel outputs – SPEAKON
- Subwoofer and satellites level controls
- Level controls and LEDs are located on the top panel, connectors are located on the rear panel
- Analog input section, acting as crossover, EQ, limiting and speaker overload protection
- Overload and short circuit protection
- DC speaker protection
- High frequency speaker protection
- Thermal protection

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**Power Rating *:**

– DX2100T-4:
- subwoofer channel **1400/800W** (4/8 Ohms)
- satellite channels (A, B) **2x350/210W** (4/8Ohms)

– DX2100T-8:
- subwoofer channel **1400 W** (8Ohms)
- satellite channels (A, B) **2 x 350 W** (8Ohms)

**Frequency range **:**
- subwoofer channel **45 – 140 Hz**
- satellite channels (A, B) **140 Hz – 20 kHz**
- channel B (MON. mode) **45 Hz – 20 kHz**

**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 **:**
- subwoofer channel **45 Hz, 12 dB/octave**
- satellite channels (A, B) **130 Hz, 24 dB/octave**
- channel B (MON. mode) **45 Hz, 12 dB/octave**

**Subwoofer Ch. Crossover Low-Pass filter frequency **** **130 Hz, 24 dB/octave**

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

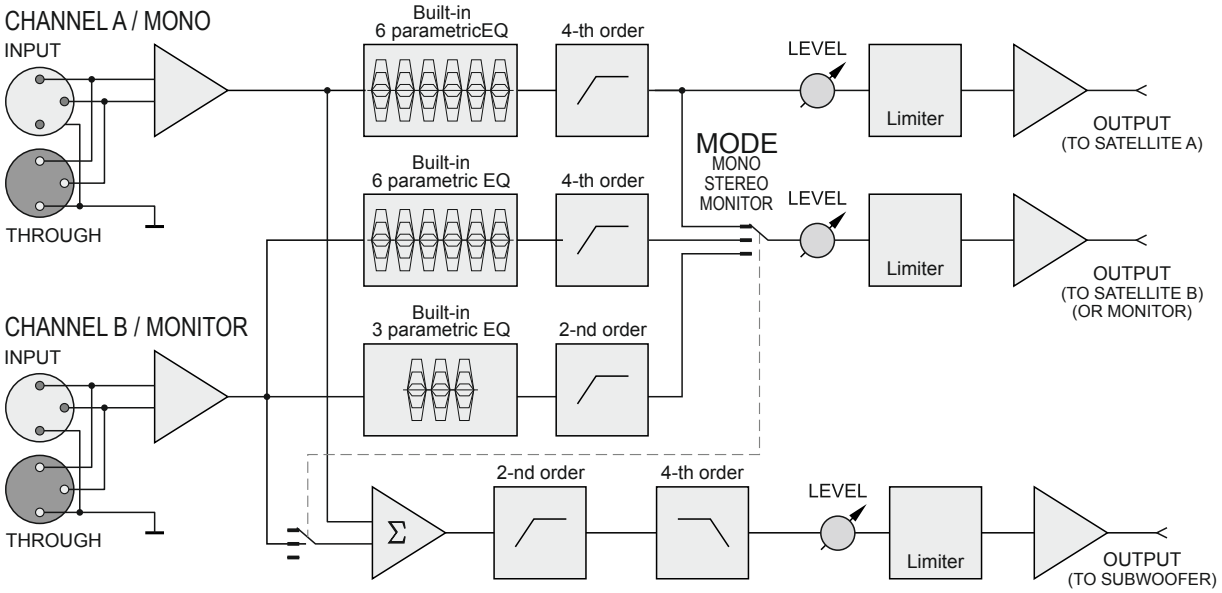
**Weight:**

– DX2100T **4.7 kg**
– DX2100T PFC **5 kg**

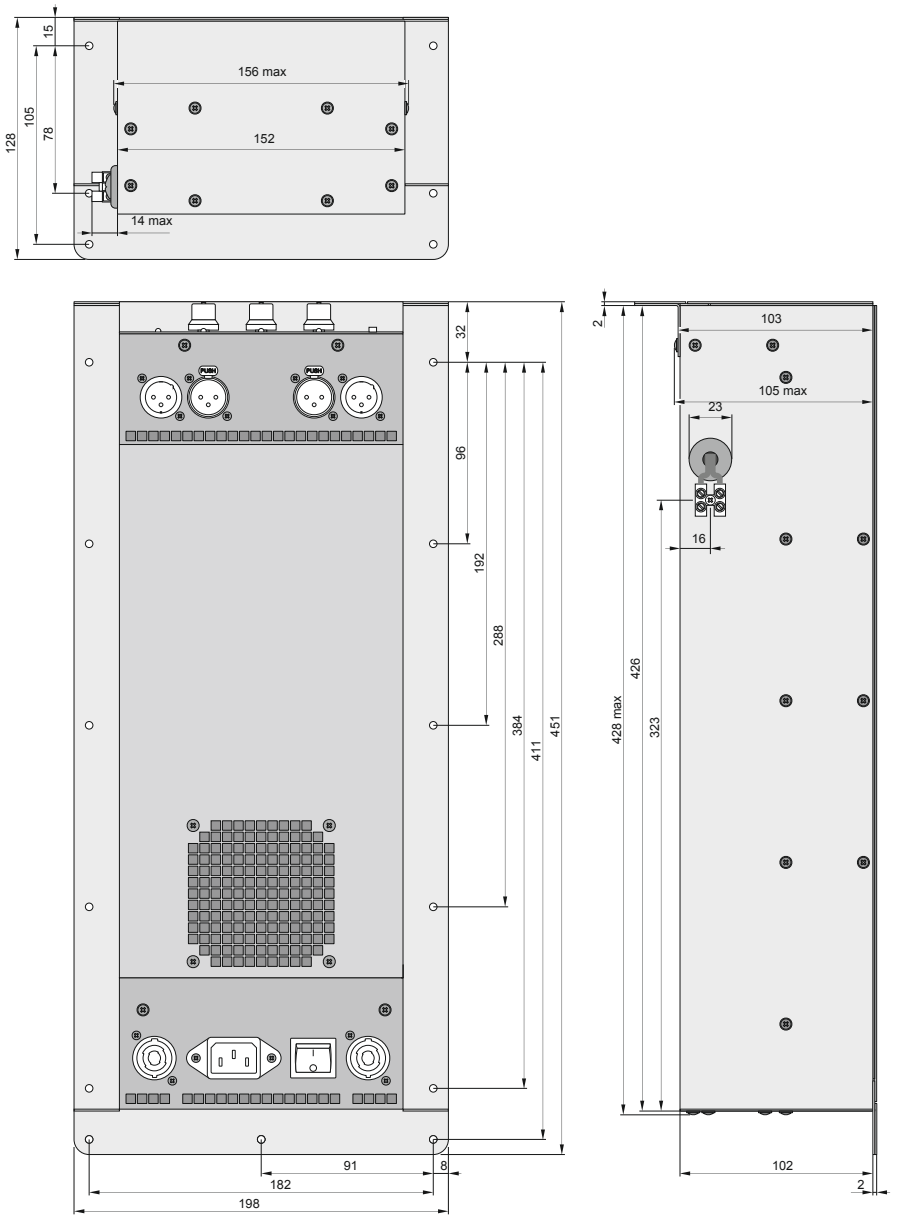
**Dimensions** **198** x **451** x **128 mm**

**Note.**
* For mains voltage:
– ~230 V for amps without PFC;
– ~160-280 V for amps with PFC.
** Basic model.
*** In the operating frequency range of the corresponding channel.

## AMPLIFIER BLOCK DIAGRAM




## MECHANICAL DRAWING

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