



DX1800M DSP

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
- Input section with DSP
- USB port for DSP setting
- 3-position preset switch
- Line input – XLR
- Line output – XLR
- Output for passive subwoofer – SPEAKON
- Line output switch: THRU/SAT
(THRU – parallel connection to input,
SAT – send processed signal to line output)
- Input level control
- Overload and short-circuit protection
- DC output protection
- Thermal protection
- High frequency protection

BUILT-IN AMPLIFIER

Application:

*Built-in amplifier
for subwoofer + satellite configuration
(for installation in a satellite).*

Versions of amplifiers:

*for 4 Ohms speaker impedance – DX1800M-4 DSP
for 8 Ohms speaker impedance – DX1800M-8 DSP*

Power Rating *:

- DX1800M-4 DSP:
 - subwoofer channel **1400/800 W** (4/8 Ohms)
 - satellite channel **350/200 W** (4/8 Ohms)
- DX1800M-8 DSP:
 - subwoofer channel **1400 W** (8 Ohms)
 - satellite channel **350 W** (8 Ohms)

Frequency Range **:h3>

- subwoofer channel **45 – 140 Hz**
- satellite channel **140 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

Power Requirements

~230 V, 50/60 Hz

Weight:

- DX1800M DSP **4.5 kg**
- DX1800M DSP PFC **4.8 kg**

Dimensions:

198 mm x 438 mm x 104 mm

Notes.

* For mains voltage:

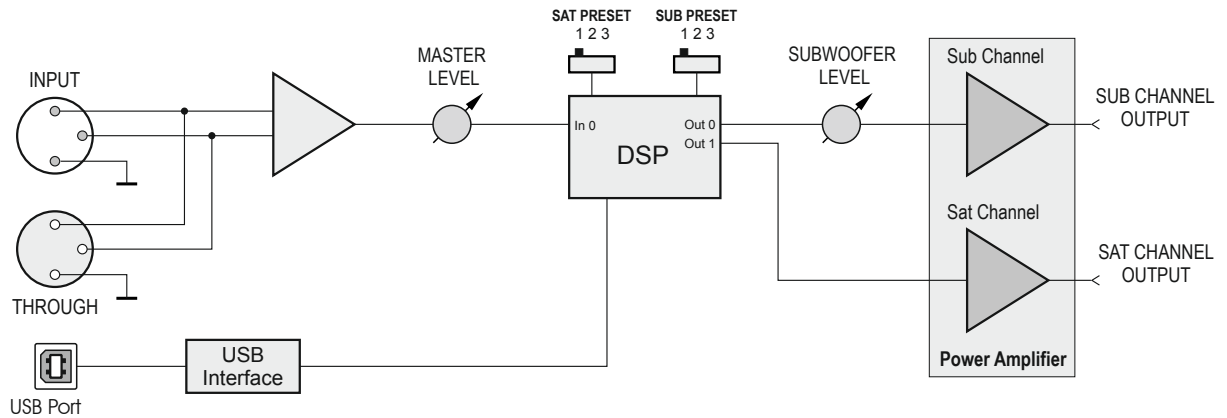
- ~230 V for amps without PFC;
- ~160-280 V for amps with PFC.

** Determined by the DSP settings.

*** In the operating frequency range of the corresponding channel.

**** Basic setting, which can be changed by DSP engine.

AMPLIFIER BLOCK DIAGRAM



MECHANICAL DRAWING

