

AE Techron

7780 AMPLIFIER

APPLICATION

The AE Techron 7780 amplifier is a member of the AE Techron 7700 Amplifier Series. The 7700 series are AE Techron's most powerful single-channel amplifiers. The 7780 is a cost effective solution for situations requiring short-term burst power, or continuous power where load impedances are 2 ohms or higher.

A single 7780 can provide 40 mSec bursts of over 150 amps peak. The 7780 can be connected (up to 4 units) in either series or parallel with other 7780s for additional voltage or current.

The 7780 can operate in either voltage or current operation modes and is DC coupled.



AE Techron 7780 Amplifier

FEATURES

- ▶ Over 4,000 watts peak output; 2858 watts rms into a 2 ohm load
- ▶ 40 mSec pulses of up to 150 amperes peak into a 1 ohm load
- ▶ Can be connected (up to four units) in series or parallel with other 7780 amplifiers
- ▶ System output of 500 volts and 200 amperes maximum are possible with multiple, interconnected amplifiers.
- ▶ Frequency bandwidth of DC to 50 kHz at rated power, DC to 100kHz at reduced power.
- ▶ Rugged chassis for stand alone or rack mounted operation . No additional power supplies required.
- ▶ Protection circuitry protects the 7780 from input overloads, improper output connection (including shorted and improper loads), over temperature, over current, and supply voltages that are to high or to low.
- ▶ Shipped ready to operate from 208 volt, three-phase ac mains. Operation from 380 or 415 volt ac mains are available on request.

INDICATORS AND CONTROLS

- ▶ Front panel LEDs indicate ready, standby, high ac mains, high temperature, signal overload and faulty output stage
- ▶ Front panel slide switch to place amplifier in run or standby .
- ▶ Front panel slide switch to reset indicator LEDs



Call us or visit our website! When your project or product requires a low noise, low distortion, high power amplifier solution, contact **AE Techron Inc.** We will be happy to help.

AE Techron Inc.

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7780 SPECIFICATIONS

PERFORMANCE

Maximum output power*

2858 watts rms

Output offset current

Less than 10 milliamperes dc

Input

Balanced with ground. Three terminal barrier block connector 20.0 ohm differential

Gain

20 volts/volt in voltage mode, 20 amperes/volt in current mode

Residual Noise

Less than 1 millivolt rms

Slew Rate

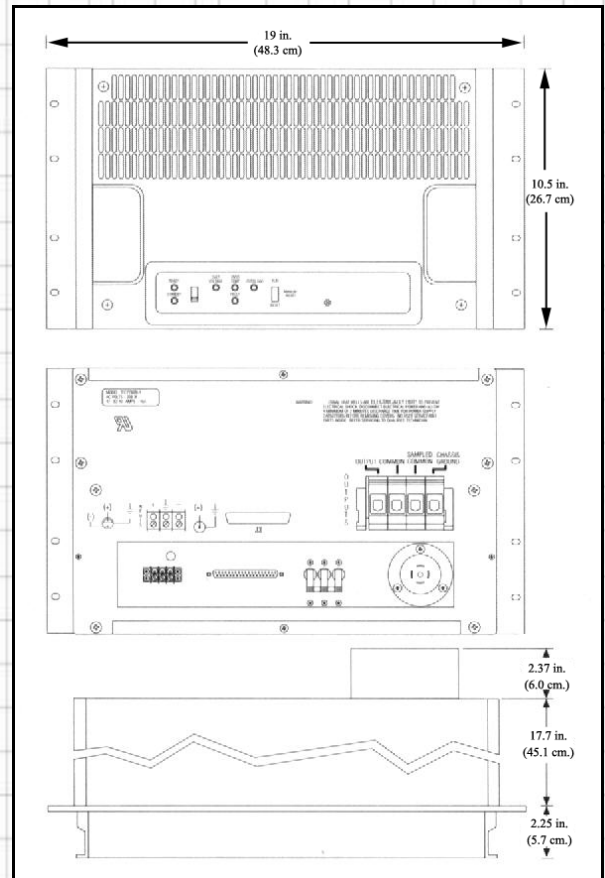
46 volts per microsecond

*Output peak power is dependant on load, signal and % duty cycle. Please contact your AE Techron Representative for details.



7780 Back Panel

DIMENSIONS



PHYSICAL CHARACTERISTICS

Chassis: All aluminum construction designed for stand alone, or rack mounted, operation with light pearl front panel and black chassis. The Amplifier occupies six EIA 19-inch-wide rack units.

Weight: 128 lbs. (57.9 kg)

AC Power: Three phase, 208 volts, 47-60 Hz, 20 amperes ac service.

Cooling: Forced air, 300 cfm required.

Dimensions: 19 in. x 10.5 in. x 22.37 in (48.3 cm x 26.7 cm x 56.8 cm)

SUPPORT

When you purchase an **AE Techron** amplifier, a full complement of technical and factory support personnel join your team. **AE Techron Inc.** provides:

- ▶ Applications engineering for your technical questions and customized product needs.
- ▶ A one year limited warranty to protect your equipment investment.
- ▶ A fully equipped service center to keep your amplifier operating at original performance requirements.

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