

AE Techron

7782 AMPLIFIER

APPLICATION

The AE Techron 7782 amplifier is the fullest featured member of the AE Techron 7700 Amplifier Series. The 7700 series are AE Techron's most powerful single-channel amplifiers. The 7782 is the best solution when situations are the least defined. The 7782 is ideal for situations requiring short-term, burst and/or continuous power, where load impedances are above or below 2 ohms.

A single 7782 can provide 40 mSec bursts of over 180 amps peak. If additional power is needed, the 7782 can be connected in series and/or parallel to create arrays of amplifiers capable of pulses in excess of 500 volts peak and 600 amps peak.

The 7782 can operate in either voltage or current operation modes and is DC coupled.



AE Techron 7782 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 7782 amplifiers.
- ▶ Utilizes Bi-Level™ Smart Power supply, able to generate both high voltage & high current with less heat than with a standard single level power supply.
- ▶ 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 7782 from input overloads, improper output connection (including shorted and improper loads), over temperature, over current, and supply voltages that are too high or too low.
- ▶ Shipped ready to operate from 208 or 240 volt, three-phase ac mains. Operation from 380, 400 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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7782 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

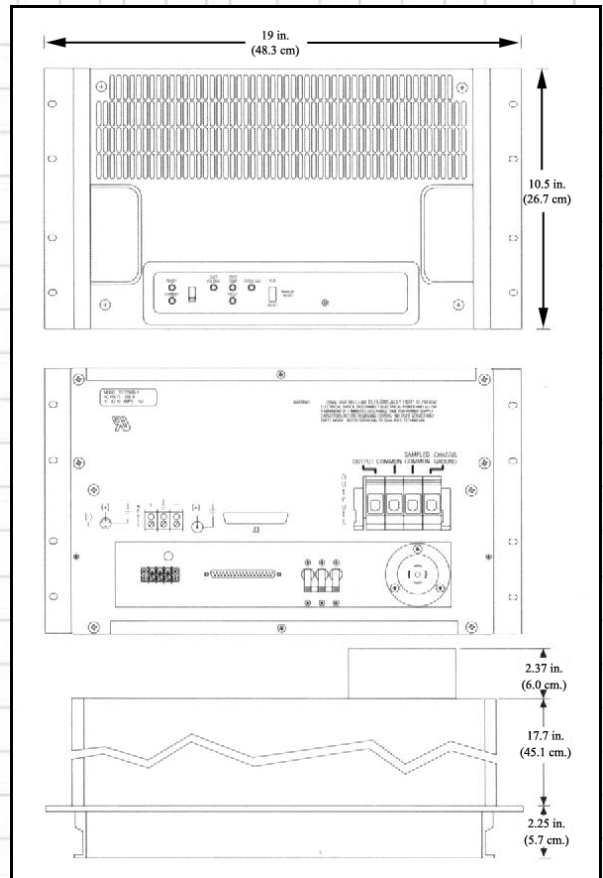
Slew Rate
46 volts per microsecond

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



7782 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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