

W-906A UL

IN-WALL PA AMPLIFIER



The TOA W-906A Mixer Power Amplifier controls and mixes up to six independent input signals plus two inputs with use of expanding kit. The W-906A delivers up to 60 W of output power. Optional accessory modules are available for use with the W-906A to provide versatility for a wide range of operating applications. Edge connectors at the bottom of the front panel permit TOA modules to be easily inserted for use. The W-906A has a built-in one-octave graphic equalizer with 9 bands to tailor sound system frequency response to room acoustics, reducing feed-back tendencies and improving intelligibility. A built-in compressor circuit is provided to protect the output level from distortion as a result of excessive input and keeps it constant. Compressor's threshold level can be adjusted. The W-906A Mixer Power Amplifiers has output terminals to match 4 or 8 Ω speaker systems, or speaker distribution system may be connected to the 25 or 70 V terminals. User's (blank) space is provided for additional functions to be made by the customers. The expanding kit (optional) may be loaded in this space when the number of input is increased. Protection against tampering is assured by means of a key-locked hinged door.

Key features

- 6-channel mixer power amplifier
- Expandable to 8-input
- Output power: 60 W
- Wide frequency response: 30 to 20,000Hz ± 1 dB
- Low distortion and noise
- Excellent output regulation
- Built-in one-octave equalizer
- Built-in compressor
- Self-protection circuitry design
- Separate output terminals: 4 and 8 ohms, 25 and 70 volts
- Extra space for customizing
- LED pilot light
- LED peak indicator
- Full range of plug-in modules
- Flush and surface mounting

Specifications

Type	In-Wall Mounting 6 Channel Mixer Power Amplifier
Power Source	120 V AC, 60 Hz
Power Consumption	100 W
Output Power	60W RMS
Power Bandwidth	(D)20 to 20,000 Hz, 0.5% THD (T)50 to 20,000 Hz, 0.5% THD
Frequency Response	(D) 30 to 20,000 Hz ± 1 dB (T) 30 to 15,000 Hz ± 1 dB (T) 30 to 20,000 Hz +1dB, -2 dB
Total Harmonic Distortion	0.02% at 1 kHz, Rated Output
Input	Six Input Ports ; 100mV / 10kohms Each port accepts any input module except T-01S. (Use T-01S only in port #5 or #6) One Bridging Input/Output ; 100mV / 3.3kohms
Output Regulation (1kHz)	(D) Less Than 0.5 dB, No Load to Full Load (T) Less Than 1.0 dB, No Load to Full Load
Signal to Noise Ratio	(Band Pass : 20 to 20,000 Hz Controls OFF ; 90 dB Equalizer IN ; 88 dB Master Volume Max. ; 77 dB Compressor IN ; 84 dB
Compressor	Attack Time ; No Greater Than 2msec. Compression Range ; 30 dB Release Time ; Variable 20msec. to 2 sec Distortion ; Less Than 1 %
Equalizer	9-band One-octave Graphic Equalizer Center Frequencies ; ISO 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16kHz Equalization Range ; ± 12 dB
Filter	High-pass Filter ; 180 Hz, 12 dB / octave Low-pass Filter ; 7kHz, 12 dB / octave
Indicator	1 LED Power Indicator 1 LED Peak Indicator
Protection	Built-in with 2 AC Fuse (1 inside) and 1 Output Circuitry Output Circuitry Protection when Heatsink Temperature Overheats
Connector	Input #1 to #6 ; Card-edge Connector Output ; Screw-terminal strip Bridging Input/Output ; Screw-terminal Strip Mute ; Screw-terminal strip
Finish	Silver
Dimensions	Size (WxHxD) ; 101.6 (4") x 60.3 (2.4") x 95.3 (3.8") mm Effective Space for Customizing Optional expanding kit WE-2 may be loaded.
Weight	13.7kg (30,20 lbs) ; Without Input Modules and Back Box
Included Accessories	Volume Control Cover x 3 pcs

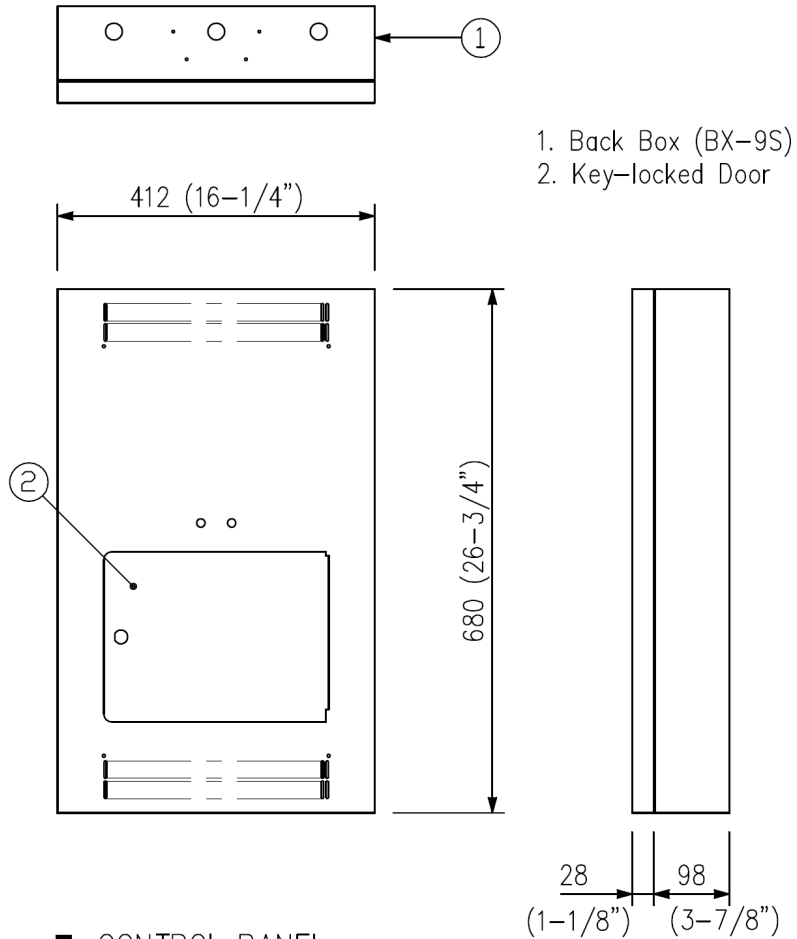
Optional Accessories

Plug-in Modules for Input ; M-01S, U-01S, B-01S, L-01S, I-01S
Plug-in Modules for Input with MUTE ; U-11S, U-12S, B-11S, L-11S, M-11S
Plug-in Modules for Input with Remote Volume Control Facility ; M-21S, U-21S
Plug-in Modules for Line Output ; T-01S
Plug-in Modules for Tone Signal ; S-01S, S-02S, S-03S
Volume Control Cover ; YA-910
Expanded Kit ; WE-2

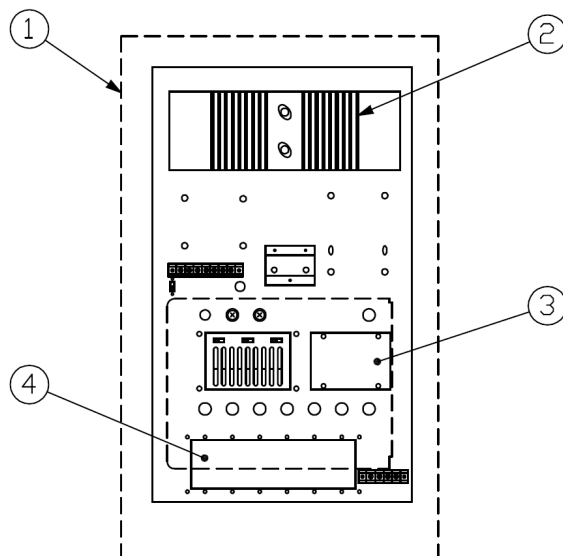
Notes) (D) : Direct Output, (T) : Transformer Output Power Bandwidth and Frequency Response are from input port to power amplifier output.

Dimensions

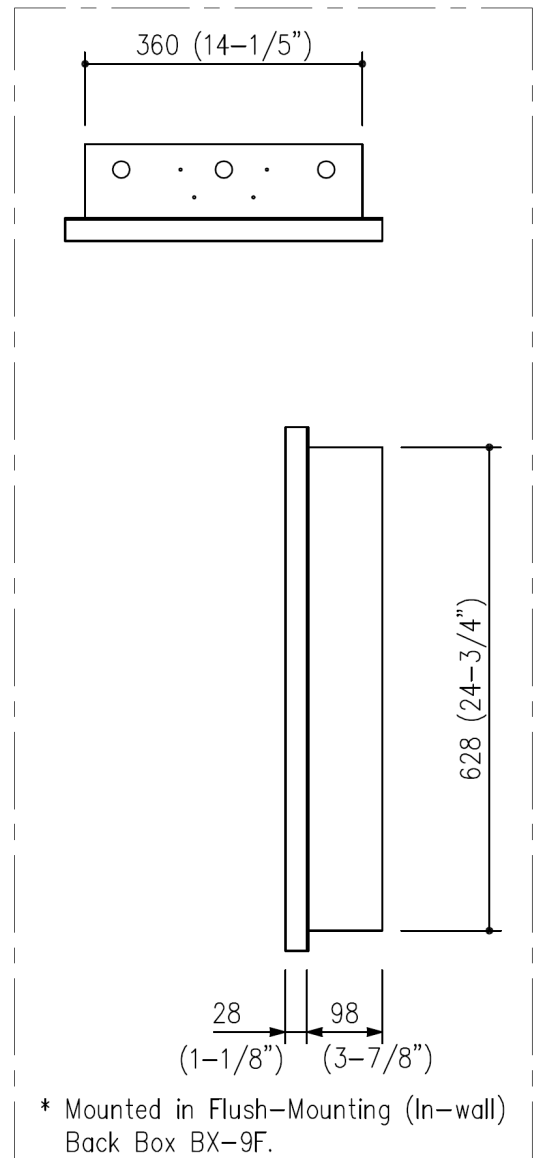
* Mounted in Surface-Mounting (On-wall) Back Box BX-9S.



■ CONTROL PANEL



UNIT: mm



1. Back Box
2. Heat Sink
3. Blank Panel (User's Space)
4. Module Input Ports

A&E specifications

The In-Wall Amplifier shall be capable of controlling and mixing up to 6 independent input signals plus 2 inputs with the use of an expanding kit. The amplifier shall deliver up to 60W of output power. The plug-in accessory modules designed for use with the In-Wall Amplifier shall utilize the latest in surface mount component technology and include the following modules: the M Series microphone preamplifiers available with muting, remote volume control, voice gate and compressor options, the U Series auxiliary preamplifiers available with muting, remote volume control and compressor options. The B Series bridging transformers, available with muting option, the L Series line matching transformers, available with muting option, the S Series signal generator modules and the I-01S Exes interface paging module. Also available shall be the T-01S module featuring 600-ohm balanced output capability and the T-02S module featuring auxiliary input and balanced line output for music-on-hold. The In-Wall Amplifier shall have a built-in 1-octave graphic equalizer with 9 bands to tailor sound system frequency response to room acoustics, reducing feedback tendencies and improving intelligibility. A built-in compressor circuit shall be provided to protect output level from distortion as a result of excessive input and keep it constant. The compressor's threshold level shall be able to be adjusted. The In-Wall Amplifier shall have output terminals to match 4- or 8-ohm speaker systems, and shall allow a speaker distribution system to be connected to the 25- or 70-volt terminals. A user's blank space shall be provided for additional functions chosen by the user. This space shall accept an expanding kit (optional) when the number of inputs is increased. A key-locked door shall be provided to assure protection against tampering. The In-Wall Amplifier shall be able to be mounted in any 4-inch wall with use of the BX-9F flush mounting back box. Wall mounting shall also be possible by using the BX-9S surface mounting box. The In-Wall Amplifier shall be TOA models W-906A.