

Classic Series Public Address Amplifiers

Models C35, C60 & C100



Description The Bogen Classic Series Models C35, C60, and C100 are public address mixer amplifiers that provide mixing of microphones, telephone, and auxiliary sources.

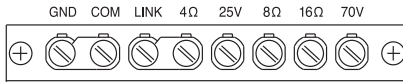
Output screw terminals are provided for 4-ohm (direct) and 8-ohm (C35 & C60 models only), 16-ohm, 25V and 70V (transformer-coupled) speaker systems. Output jacks let you connect to a tape recorder or an additional booster amplifier, or feed a 600-ohm telephone line when an accessory transformer (Model WMT1A) is used.

- Features**
- 3 models: 35, 60, and 100 watts
 - 4 inputs: 1 MIC (Lo-Z), 1 AUX (Hi-Z), 1 TEL, plus 1 selectable MIC or AUX
 - Each input controlled by an independent volume control
 - Treble and bass controls
 - AUX muting by external contact closure for push-to-talk microphones
 - TEL input for telephone paging applications
 - TEL input voice-activated (VOX) mute over AUX input
 - Variable threshold for TEL input voice-activated AUX mute
 - Outputs for 4-ohm (direct), 8-ohm (C35 & C60 models only), and 16-ohm, 25V and 70V speaker systems (transformer coupled)
 - Output jack to connect a recording device or booster amplifier
 - Output jack to connect a general-purpose 600-ohm matching transformer (model WMT1A)
 - Thermal protection and electronic shutdown
 - Rack mountable with accessory mounting kit (model RPK50)
 - Listed to UL Standard 60065 for U.S. and Canada

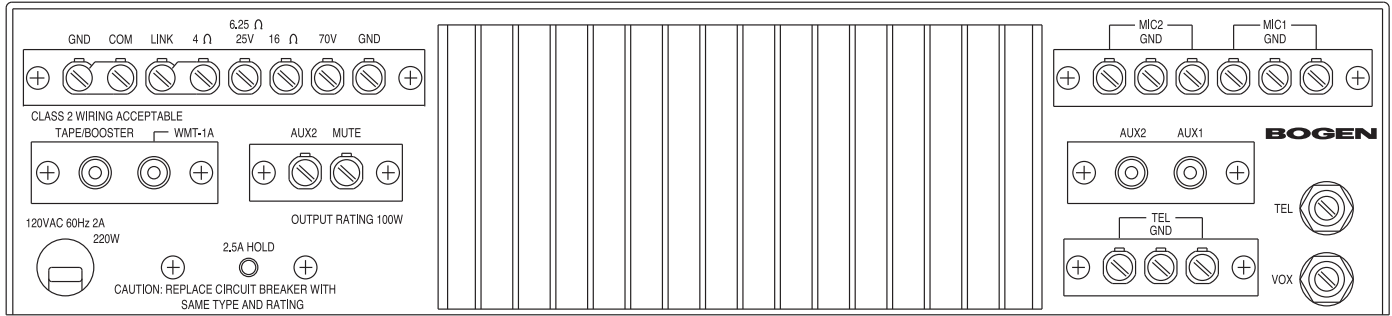
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C35 & C60 Models



C100 Model



Technical Specifications

Power Output (RMS):	C35	C60	C100	Output Connections:	Screw terminal strip, TAPE/BOOSTER jack; WMT1A jack (requires accessory transformer)
<i>Rated</i>	35W	60W	100W	Input Connections:	Screw terminals for MIC and TEL, two AUX Hi-Z jacks
Frequency Response & Distortion:				Controls:	MIC1, MIC2/AUX (switch selected), AUX 2, BASS, TREBLE, TEL, VOX
<i>Transformer†</i>	70 Hz - 16 kHz (± 2 dB) @ 1% max.			Thermal Emissions:	C35: 119.5 BTU/hr.; C60: 228.8 BTU/hr.; C100: 399.6 BTU/hr.
<i>4-Ohm Direct Output</i>	20 Hz - 20 kHz (± 1 dB) @ 0.5% max.			Tone Control:	Treble, ±11 dB @ 10 kHz; Bass ±11 dB @ 100 Hz
Hum and Noise:				Power Requirements:	120V AC, 60 Hz C35: 85W; C60: 148W; C100: 220W
<i>MIC</i>	55 dB below rated output			Dimensions:	14-1/2" W x 3-3/4" H x 11" D
<i>AUX</i>	70 dB below rated output			Product Weight:	C35: 15 lb; C60: 17 lb; C100: 19 lb.
<i>TEL</i>	70 dB below rated output				
Input Sensitivity:					
<i>MIC Lo-Z Balanced</i>	600μV				
<i>AUX</i>	85mV				
<i>TEL</i>	75mV				
Outputs:	8 ohms (C35 & C60 models only), 16 ohms, 25V, 70V transformer-isolated balanced or unbalanced; 4 ohms direct unbalanced				

Architect and Engineer Specifications

The public address amplifier shall be a Bogen Model _____, or approved equivalent, with a full power rating of _____watts. (Specify: C35/35 watts, C60/60 watts or C100/100 watts.) The frequency response (transformer) shall be 70 Hz to 16 kHz ±2 dB†, with less than 1% distortion†. Input sensitivity shall be 600μV for low-impedance balanced microphones, 85mV for auxiliary inputs, and 75mV for TEL input. Hum and noise shall be 55 dB below rated output for the MIC inputs and 70 dB below rated output for the AUX and TEL inputs.

The amplifier shall provide one dedicated low-impedance balanced microphone input, one dedicated Hi-Z auxiliary input, and one dedicated telephone line input, as well as a fourth input that is switch selectable to be either a microphone or auxiliary input.

The microphone inputs shall be equipped with filters to protect against RF interference. Independent volume controls for each input as well as TREBLE control (±11 dB @ 10 kHz) and BASS control (±11 dB @ 100 Hz) shall be incorporated. A precedence circuit shall mute the AUX 2 input when a customer-supplied external switch is actuated.

The amplifier shall include a TEL volume control to adjust the telephone paging level and a VOX volume control to adjust the TEL input signal level trigger point for automatic muting of the AUX inputs.

The amplifier shall provide output impedances of 4-ohm (direct), 8-ohm (C35 & C60 models only), and 16-ohm speaker systems as well as for 25V and 70V constant voltage systems. Two high-impedance outputs shall be provided to drive a tape recorder or booster amplifier and, when used with an accessory transformer (WMT1A), to feed a 600-ohm telephone line.

The amplifier shall contain a resettable thermostat in the power transformer to protect against heat build-up and short-circuited or overloaded connections.

Provision shall be included to mount the amplifier in 19-inch equipment racks, using an optional rack panel kit (Model RPK50). Dimensions shall be 14-1/2" W x 3-3/4" H x 11" D. Product weight shall be _____lb. (Insert 15 lb. for C35, 17 lb. for C60 or 19 lb. for C100.)

† Measured @ 2 dB below FRP