

# Classic Series Public Address Amplifiers



## Models C10 and C20

**Description** The Bogen **Classic Series** Models C10 and C20, offer dependable performance and flexibility. The C10 is rated at 10 watts. The C20 is rated at 20 watts. Both models are listed to UL Standard 60065 for US and Canada.

The Classic Series is designed with discreet complementary transistor circuitry to assure maximum reliability of power output stages.

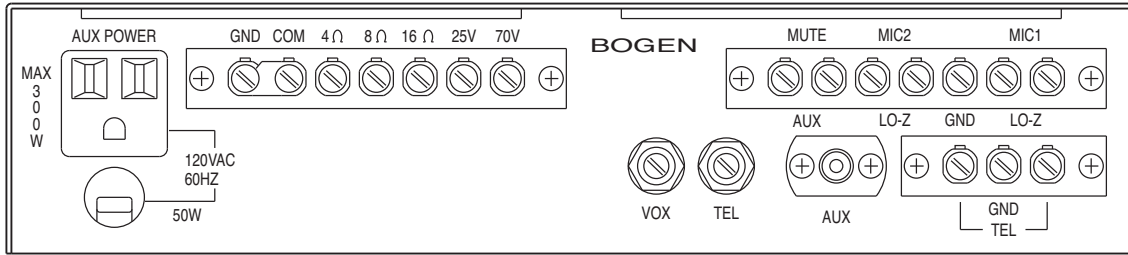
- Features**
- C10 & C20 have 10W and 20W output power, respectively
  - Transformer isolated 4 $\Omega$ , 8 $\Omega$ , 16 $\Omega$ , 25V and 70V output taps
  - Rear panel auxiliary receptacle
  - One dedicated MIC 1 input — Lo-Z balanced
  - One switchable MIC 2/AUX 1 input
  - Contact muting of AUX input
  - Transformer-isolated 600 $\Omega$  telephone paging input
  - Separate rear panel-mounted TEL volume control
  - Voice-activated muting of AUX input by TEL input
  - Variable trigger threshold for voice activation
  - Optional wall mount kit
  - Optional impedance matching transformer 10k/600 $\Omega$
  - Listed to UL Standard 60065 for US and Canada

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Specifications subject to change without notice.

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## Technical Specifications

<b>Power Output:</b>	<i>C10:</i> 10 WRMS <i>C20:</i> 20 WRMS
<b>Distortion:</b>	Less than 1% @ RPO
<b>Frequency Response:</b>	70Hz to 16kHz ±1dB
<b>Hum and Noise:</b>	<i>MIC:</i> 55dB below rated output <i>AUX:</i> 70dB below rated output <i>TEL:</i> 70dB below rated output
<b>Input Sensitivity:</b>	<i>MIC:</i> Lo-Z Balanced 600μV <i>AUX:</i> 85mV (10k ohms) <i>TEL:</i> 75mV (600Ω)
<b>Outputs:</b>	4, 8, and 16 ohms; 25V; 70V
<b>Output Connections:</b>	Screw terminal strip
<b>Input Connections:</b>	Two MIC Lo-Z terminals, AUX Hi-Z jack, TEL terminals
<b>Thermal Emissions:</b>	<i>C10:</i> 34.2 BTU/hr. <i>C20:</i> 99 BTU/hr.
<b>Controls:</b>	MIC 1, MIC2/AUX (switch selected), Treble, TEL, VOX, Power
<b>Tone Control:</b>	TREBLE, -11dB @ 10kHz (cut only)
<b>Power Requirements:</b>	120V~, 60Hz <i>C10:</i> 38 watts <i>C20:</i> 50 watts
<b>Dimensions:</b>	11-3/8" W x 2-7/8" H x 7-3/8" D
<b>Product Weight:</b>	<i>C10:</i> 5 lbs. <i>C20:</i> 6 lbs.

## Architect and Engineer Specifications

The public address amplifier shall be a Bogen Model \_\_\_\_\_, or approved equivalent, with a full power rating of \_\_\_\_\_watts. (Specify: C10/10 watts or C20/20 watts.) The frequency response shall be 70Hz to 16kHz ±1dB, with less than 1% distortion at rated power output. Input sensitivity shall be 600μV for low-impedance balanced microphones, 85mV for auxiliary inputs, and 75mV for the telephone input. Hum and noise shall be 55dB below rated output for the MIC input, and 70dB below rated output for the AUX and TEL inputs.

The amplifier shall provide simultaneous mixing of two low-impedance balanced microphones and one telephone input; or one microphone, one auxiliary input, and one telephone input. The unit shall have a front panel selector switch which shall allow one of the input channels (MIC 2/AUX) to be selected for use as a microphone or an auxiliary input. It shall be possible to mute the auxiliary input when a customer-supplied SPST switch is attached to the AUX MUTE terminals on the rear panel.

The TEL input shall provide signal-activated paging with muting of the AUX channel. A VOX threshold control shall be included to eliminate activation of the channel by noise on the telephone line. The threshold control and TEL volume control shall be located on the rear panel.

The microphone inputs shall be equipped with filters to protect against RF interference. Independent volume controls and a treble cut control (-11dB @ 10kHz) shall be incorporated.

The amplifier shall provide output impedances of 4-, 8-, and 16-ohm speaker systems as well as for 25V and 70V constant voltage systems.

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

The amplifier shall be mountable in 19-inch equipment racks, using an optional rack panel kit (Bogen Model RPK35B), or in a flush-in-wall mounting cabinet with tilt-out locking panel (Bogen Model WMK1). Dimensions shall be 11-3/8" W x 2-7/8" H x 7-3/8" D. Product weight shall be 5 lbs. for Model C10 and 6 lbs. for Model C20.

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