

PUBLIC ADDRESS AMPLIFIERS

Classic Series Amplifiers



C10, C20

The Classic Series mixer amplifiers provide mixing of microphones, telephone, and auxiliary sources. Bogen's Classic Series amplifiers offer high performance, flexibility, and reliability for most applications requiring a variety of inputs.

Product Features:

- 35-, 60-, and 100-watt models as well as 10- and 20-watt models
- 4 inputs (C35/60/100 models): 1 MIC (Lo-Z), 1 AUX (Hi-Z), 1 TEL, plus 1 selectable MIC or AUX
- 3 inputs (all C10/C20 models): 1 MIC (Lo-Z), 1 TEL, plus 1 selectable MIC or AUX
- AUX muting w/ external contact closure or automatic w/ TEL
- TEL input voice-activated (VOX) mute over AUX input
- Variable threshold for voice-activated AUX mute
- Separate volume controls for each input plus overall bass and treble (C35/60/100 models) or tone (all C10/20 models)
- Outputs for 4-ohm, 8-ohm (not C100 model), 16-ohm, 25V, and 70V speaker systems
- Screw terminal connection for microphones
- Input Sensitivity: 600 μ V, MIC; 85 mV, AUX; 75 mV, TEL



C35, C60, C100

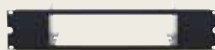
- Thermal protection and electronic shutdown
- Record output jack (C35/60/100 models only)
- Easy-to-understand and easy-to-operate controls
- Rack-mountable w/ accessory mounting kit (2 rack spaces)
- Listed to UL Standard 60065 for US and Canada

Model	Number of Inputs	MIC precedence over AUX input(s)	Bass/Treble control	4-, 16-ohm, 25V, 70V speaker outputs	8-ohm speaker outputs	VOX muting of AUX input (TEL input only)	Variable VOX threshold	Tape/Booster Output
C100	4 - 1 MIC, 1 AUX, 1 TEL, 1 MIC/AUX	●	●	●	●	●	●	●
C35/C60	4 - 1 MIC, 1 AUX, 1 TEL, 1 MIC/AUX	●	●	●	●	●	●	●
C10/C20	3 - 1 MIC, 1 TEL, 1 MIC/AUX	●	*	●	●	●	●	●

* Treble Cut only

Technical Specifications, Dimensions, and Weights can be found on Page 79

Accessories



RPK35B
Rack Panel Kit
for C10 and C20 models



RPK50
Rack Panel Kit
for C35/60/100 models



WMK1
In-Wall Mounting Kit
for C10 and C20 models



WMT1A
Matching Transformer

UTILITY AMPLIFIERS



Utility Amplifier GA2

The GA2 is a rugged, compact amplifier designed to meet the requirements of continuous low-power audio applications, especially telephone line "music-on-hold" amplification; to drive monitor speakers and headphones; or as a line amplifier.

Product Features:

- 1.5-watt utility amplifier
- 1 input: AUX (Hi-Z)
- 8-ohm or 600-ohm outputs
- 200 Hz - 15 kHz frequency response
- 50 mV sensitivity
- Volume control
- 120V AC operation
- 4W power consumption
- 5-1/2 ft. AC power cord included
- Wall-mountable design
- Listed to UL Standard 60065 for US and Canada



Utility Amplifier GA6A

The GA6A is a dual-input amplifier with a wide variety of smaller applications including background music, relaying communication from one room to another, or sound reinforcement.

Product Features:

- 6-watt utility amplifier
- 2 inputs: 1 MIC (Lo-Z), 1 AUX (Hi-Z)
- 8-ohm, 25V, or 70V outputs
- 30 Hz - 12 kHz frequency response
- Sensitivity: 0.3 mV, MIC; 0.2V, AUX
- Adjustable tone control
- Thermal and over-current circuit breakers
- 16W power consumption
- Listed to UL Standard 60065 for US and Canada

Accessories



WMT1A
Matching Transformer

Technical Specifications, Dimensions, and Weights can be found on Page 79

AMPLIFIER FEATURES CHART

Amplifier Output Power Rating/ Channel	Model Numbers	Amp Channels	Input Types						Signal Processing						Music Muting				Night Ringer	Remote Volume	Output Meter	Mounting			Page Number								
			TEL Input* 600-ohm Balanced	MC Input* Lo-Z Balanced	AUX Input* Hi-Z Unbalanced	Balanced Inputs Hi-Z	Modular Inputs	Audio Enhancement	Loudness Contour	ALC	EQ	Bass/Treble	Tone Control	Variable Mute	Auto Mute	Manual Mute	Wall Mount	Shelf Mount				Rack Mount											
1.5W	GA2	1		1	1																											42	
5W	GAG	1		1	1																											42	
10W	C10	1	1	2 (1)	0 (1)																											42	
15W	TPU15A	1	1	1	1																											43	
20W	C20	1	1	2 (1)	0 (1)																											42	
35W	C35	1	1	2 (1)	1 (2)																											42	
35W	GS35	1	0 (1)	6 (4)	1 (2)																											41	
35W	TPU35B	1	1	1	1																											43	
35W	V35	1	1	1	1																											38	
60W	BPA60	1																														46	
60W	C60	1	1	2 (1)	1 (2)																											42	
60W	GS60	1	0 (1)	6 (4)	1 (2)																											41	
60W	TPU60B	1	1	1	1																											43	
60W	V60	1	1	1	1																											38	
100W	C100	1	1	2 (1)	1 (2)																											42	
100W	GS100	1	0 (1)	6 (4)	1 (2)																											41	
100W/60W/20W	PM3180	3	0 (1)	2 (1)	4																											47	
100W	TPU100B	1	1	1	1																											43	
100W	V100	1	1	1	1																											38	
100W	WV100	1	1	1	1																											40	
125W	HTA125A	1																														46	
150W	GS150	1	0 (1)	6 (4)	1 (2)																											41	
150W	V150	1	1	1	1																											38	
150W	WV150	1	1	1	1																											40	
250W	GS250	1	0 (1)	6 (4)	1 (2)																												41
250W	HTA250A	1																														46	
250W	TPU250	1	1	1	1																											43	
250W	V250	1	1	1	1																											38	
250W	WV250	1	1	1	1																											40	
300/600W	M300	2/1	1	1	1																											45	
300W	X300	2																														44	
450/900W	M450	2/1	1	1	1																											45	
450W	X450	2																														44	
600/1200W	M600	2/1	1	1	1																											45	
600W	X600	2																														44	

- Feature Included
 - Features determined by type of module installed
 - Balanced input available with accessory plug-in transformer (TL100 or TL600)
 - Accessory kit required for mounting
 - Contact closure activation only
- * Some inputs are switch selectable. The number in parentheses shows the maximum number of inputs when switched.
- † BALSZ balanced input module included standard; uses one modular input bay.

Specifications subject to change without notice.

AMPLIFIER SPECS CHART

Model Numbers	Output Power Rating/Channel	Channels	Frequency Response*	Distortion**	Speaker Outputs	AC Line Draw***	Dimensions	Product Weight
BP460	60W	1	20 Hz to 20 kHz	2% Max	8-ohm/25V, 16-ohm, 25VCT, 70V	180W	15-1/4" W x 3-1/2" H x 8-1/4" D	17 lb.
C10	10W	1	70 Hz to 16 kHz	1% Max	70V, 25V, 16-ohm, 8-ohm, 4-ohm	38W	11-3/8" W x 2-7/8" H x 7-3/8" D	5 lb.
C20	20W	1	70 Hz to 16 kHz	1% Max	70V, 25V, 16-ohm, 8-ohm, 4-ohm	50W	11-3/8" W x 2-7/8" H x 7-3/8" D	6 lb.
C35	35W	1	70 Hz to 16 kHz - Transformer; 20 Hz to 20 kHz - Direct	1% Max	70V, 25V, 16-ohm, 4-ohm direct	85W	14-1/2" W x 3-3/4" H x 11" D	15 lb.
C60	60W	1	70 Hz to 16 kHz - Transformer; 20 Hz to 20 kHz - Direct	1% Max	8-ohm on C35 and C60	148W	14-1/2" W x 3-3/4" H x 11" D	17 lb.
C100	100W	1	200 Hz to 15 kHz	2% Max	8- & 600-ohm	220W	5-1/2" W x 4-1/8" H x 2-1/4" D	19 lb.
GA2	1.5W	1	30 Hz to 12 kHz	2% Max	70V, 25V, 8-ohm	4W	8-1/2" W x 2-3/4" H x 6" D	2 lb.
GA6A	6W	1	30 Hz to 12 kHz	2% Max	70V, 25V, 8-ohm	16W	8-1/2" W x 2-3/4" H x 6" D	5 lb.
GS35	35W	1	65 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% Max	70V, 25V, 25VCT, 8-ohm, 4-ohm direct	0.9A	16-1/2" W x 3-1/2" H x 13-1/2" D	17 lb.
GS60	60W	1	65 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% Max	70V, 25V, 25VCT, 8-ohm, 4-ohm direct	1.3A	16-1/2" W x 3-1/2" H x 13-1/2" D	20 lb.
GS100	100W	1	65 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% Max	70V, 25V, 25VCT, 8-ohm, 4-ohm direct	2.2A	16-1/2" W x 3-1/2" H x 13-1/2" D	23 lb.
GS150	150W	1	65 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% Max	70V, 25V, 25VCT, 8-ohm, 4-ohm direct	3.0A	16-1/2" W x 3-1/2" H x 13-1/2" D	29 lb.
GS250	250W	1	65 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% Max	70V, 25V, 25VCT, 8-ohm, 4-ohm direct	5.0A	16-1/2" W x 3-1/2" H x 13-1/2" D	30 lb.
HTA125A	125W	1	20 Hz to 20 kHz	0.5% Max	70V, 25VCT, 25V, 8-ohm, 4-ohm	260W	19" W x 5-1/4" H x 11" D	36 lb.
HTA250A	250W	1	20 Hz to 20 kHz	0.5% Max	70V, 25VCT, 25V, 8-ohm, 4-ohm	520W	19" W x 5-1/4" H x 11" D	50 lb.
M300	300/600W	2 or 1	20 Hz to 20 kHz	0.5% Max	4- to 8-ohm (2 channel mode); 70V (1 channel mode)	12A	17" W x 3-1/2" H x 18-1/2" D (not including brackets)	41 lb.
M450	450/900W	2 or 1	20 Hz to 20 kHz	0.5% Max	4- to 8-ohm (2 channel mode); 70V (1 channel mode)	15A	17" W x 3-1/2" H x 18-1/2" D (not including brackets)	44 lb.
M600	600/1200W	2 or 1	20 Hz to 20 kHz	0.5% Max	4- to 8-ohm (2 channel mode); 70V (1 channel mode)	20A	17" W x 3-1/2" H x 18-1/2" D (not including brackets)	46 lb.
PMS180	100W 60W 20W	3	70 Hz to 20 kHz - Trans (Amp 1 & 2); 70 Hz to 15 kHz - Trans (Amp 3); 20 Hz to 20 kHz - Direct (Amp 1 & 2); 20 Hz to 15 kHz - Direct (Amp 3)	0.5% - Amp 1 & 2; 1% - Amp 3 (Max)	70V, 25V, 8-ohm, 4-ohm direct	430W	17" W x 5-1/2" H x 12-1/2" D	38 lb.
TPU15A	15W	1	70 Hz to 12 kHz	2% Max	70V, 25V, 8-ohm	0.5A	11" W x 2-3/4" H x 2-3/8" D	4 lb.
TPU35B	35W	1	70 Hz to 12 kHz	2% Max	70V, 25V, 8-ohm	0.75A	11" W x 2-3/4" H x 2-3/8" D	12 lb.
TPU60B	60W	1	70 Hz to 15 kHz	1% Max	70V, 25V, 25VCT, 16-ohm	1.5A	14-1/4" W x 8-3/8" H x 3-5/8" D	15 lb.
TPU100B	100W	1	70 Hz to 15 kHz	1% Max	70V, 25V, 25VCT, 16-ohm	2A	14-1/4" W x 8-3/8" H x 3-5/8" D	18 lb.
TPU250	250W	1	70 Hz to 15 kHz	1% Max	70V, 25V, 25VCT, 16-ohm	5A	19" W x 10-1/2" H x 3-7/8" D	28 lb.
V35	35W	1	45 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% - Transformer; 0.1% - Direct (Max)	70V, 25V, 8-ohm, 4-ohm direct	0.6A	17" W x 3-1/2" H x 14-3/4" D	22 lb.
V60	60W	1	45 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% - Transformer; 0.1% - Direct (Max)	70V, 25V, 8-ohm, 4-ohm direct	1.3A	17" W x 3-1/2" H x 14-3/4" D	26 lb.
V100	100W	1	45 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% - Transformer; 0.1% - Direct (Max)	70V, 25V, 8-ohm, 4-ohm direct	2.0A	17" W x 3-1/2" H x 14-3/4" D	28 lb.
V150	150W	1	45 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% - Transformer; 0.1% - Direct (Max)	70V, 25V, 8-ohm, 4-ohm direct	3.5A	17" W x 3-1/2" H x 14-3/4" D	31 lb.
V250	250W	1	45 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.5% - Transformer; 0.1% - Direct (Max)	70V, 25V, 8-ohm, 4-ohm direct	5.5A	17" W x 3-1/2" H x 14-3/4" D	32 lb.
WV100	100W	1	20 Hz to 20 kHz	0.5% Max	70V direct	2.0A	14-1/8" W x 21" H	27 lb.
WV150	150W	1	20 Hz to 20 kHz	0.5% Max	70V direct	3.5A	14-1/8" W x 21" H	29 lb.
WV250	250W	1	20 Hz to 20 kHz	0.5% Max	70V direct	5.5A	14-1/8" W x 21" H	28 lb.
X300	300W	2	20 Hz to 20 kHz	0.5% Max	70V direct	12A	17" W x 3-1/2" H x 18-1/4" D (not including brackets)	41 lb.
X450	450W	2	20 Hz to 20 kHz	0.5% Max	70V direct	15A	17" W x 3-1/2" H x 18-1/4" D (not including brackets)	44 lb.
X600	600W	2	20 Hz to 20 kHz	0.5% Max	70V direct	20A	17" W x 3-1/2" H x 18-1/4" D (not including brackets)	46 lb.

* @ -20dB FRP Transformer output;

@ FRP for Direct outputs

** Bandwidth limited to frequency response

*** FRP @ 120V AC line voltage

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