#### **DUAL-CHANNEL POWER AMPLIFIERS**

#### **M-Class Amplifiers** M300, M450, M600



Bogen's M-Class amplifiers provide professional sound installers with exactly what they need from an amplifier: 3 modes of operation - stereo (4-ohm), 70V mono, dual mono (4-ohm); 2 bays for a variety of input modules; up to 600W/ch stereo (4-ohm) or 1200W of 70V mono power; massive power toroid and heat sinks; heavy 14-gauge chassis; patented Back-Slope™ AC voltage stabilization; clip limiters; and DC voltage, overcurrent, and thermal protection circuits.

#### Product Features:

- 3 Mono power levels: 600W, 900W, or 1200W for 70V speaker systems
- · 3 Stereo power levels: 300W, 450W, or 600W per channel @ 4 ohms
- · 3 Modes of operation to choose from: Stereo (4-ohm), Dual Mono (4-ohm), or 70V Mono
- · 2 Module input bays for flexible modular input capability
- · Low noise, low distortion, and high slew rate
- Professional, high-impedance, balanced stereo input module included (BAL2S)
- 3 Selectable low-frequency roll-off choices
- · 2:1 Mixer function when in mono modes
- · Insert connections for outboard equipment (in mono modes)
- Post- and Pre-EQ Output Feeds (summed) mono out in stereo mode)

70V Speaker Output -

For 70V constant voltage

Channel Balance Control (in Dual Mono operation mode) -Allows the output level of one channel's output level.

speaker systems. Provides a

single channel of amplification.

- · DC, overload, short circuit, and thermal protection circuits
- · Clip limiting circuits for speaker protection
- Power-saving Sleep Mode for intermittent use
- · Status, Signal, and Clip/Limit indicators
- Back-Slope AC voltage stabilization for dependable performance over varying AC line voltages
- · Recessed volume control knobs (behind cover)
- Mounts in 2 rack spaces (3-1/2") directly stackable
- · 2 Independent, continuously variable cooling fans
- Easily removable front fan grilles with filters
- · Stable into 2-ohm loads
- Listed to UL Standard 60065 for US and Canada

Low Cut Filter Switch - Select a low-fre-Module Bay - The unit can accept one or quency roll-off of 65 Hz or 125 Hz for two Bogen input modules. Each amplifier comes with a balanced, high-impedance transformer-coupled and horn speakers. Flat position allows full low-frequency stereo input module.

Cooling Fans - Two independent. variable-speed cooling fans respond only as needed to keep the amplifiers cool and reduce dust build-up.

#### **Rear Panel** Low-Impedance Outputs -Operational Mode Selector -Output Feeds - In mono modes, the For 4- to 8-ohm speaker Choose one of three settings to meet connectors provide output signal feeds application needs: 70V Mono, Dual loads. Unit is stable into Effects Loop - Provides insert both before and after any outboard point for outboard signal-processloads as low as 2 ohms. Mono (4-ohm), or Stereo (4-ohm), See signal-processing. In stereo mode, ing equipment when the amplifier the sidebar on this page for descripthe Pre-EQ connector provides mono is in either 70V Mono or Dual tion of operating modes mix output of the stereo input signal. Mono modes (modular inputs are in a 2:1 mixer configuration).

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

### Input Modules See Page 39

#### **Accessories** RPK86 Rear Rack Mounting

#### Modular Amplifier

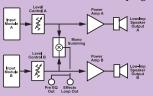
The M-Class Series of amplifiers are modular amps that can accept up to two input modules per unit. These modules offer a cost effective and convenient way to add a variety of features to a system. A balanced line input module (BAL2S) is shipped with each unit. See page 39.

#### **Modes of Operation**

Each model includes a 3-position switch that can be set to one of three modes of operation: Stereo mode, 70V Mono mode, or Dual Mono mode.

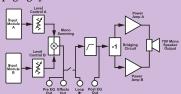
#### • Stereo

In this mode, the amp supplies two independent channels of low-impedance amplification. These channels can be used to supply left and right audio for stereo installations of 2 separate zones of amplification with different audio programs.



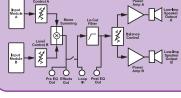
#### • 70V Mono

In this mode, the amp supplies a single channel of amplification. This mode also mixes the signals from each input module into a mono program. By assigning each module to a different bus, a 2:1 mixer is formed with the front-mounted level controls adjusting the mix. In addition, one module can be set to mute the other when it is active, thereby providing an effective paging system.



#### • Dual Mono

This mode is similar to the 70V Mono mode except that in this mode the amp supplies two channels of low-impedance amplification. This mode still mixes the input signal from the different modules but a Channel Balance control is provided to adjust the output levels of one channel against the other.



**PVMC** 

Module

Cover

## **AMPLIFIER FEATURES** CHART

	Page Number	42	42	42	43	42	42	41	43	38	46	42	41	43	38	42	41	47	43	38	40	46	41	38	40	41	46	43	38	40	45	44	45	44	45
	Rack Mount					•	•	•	•	•	•		•	•		•	•			•		•	•	•					•		•	•	•		•
Mounting	Shelf Mount	•	•			•	•	•		•	•	•	•		•		•					•	•	•					•		•		•	•	
~	triuoM llsW	•			•				•												•				•					•					
	Output Meter									•											•			•	•				•	•					
	9muloV stomsA		Γ	Г			Г	•		•			•				•			•	•			•					•	•					
	Night Ringer				•				•																										
	ətuM lsunsM					•	•	•	•			•	•				•																		
Music Muting	ətuM otuA				•		•	•	•	•		•	•		•	•	•	•		•	•		•	•	•				•	•	•		•		•
Mus	Variable Mute							•	•	•			•				•				•			•	•				•	•	•		•		•
	Tone Control		•	•	•																														
	Bass/Treble						•		•	•		•				•		•			•			•					•	•					
cessing	EQ		Г	T			Г	•		•			•		•		•			•	•		•	•	•				•	•					
Signal Processing	ЭТУ				•			•	•	•			•		•		•	•		•	•		•	•					•	•	•		•		•
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	Modular Inputs									∞					8					8	∞			∞	∞				∞	80	2		2		2
	singni bəsələsi Z-iH		Г	T		Г	Г			•										•	•			•	•				•	•	2⁺	2	5⁺	2	5
Input Types	*stuqni XUA beansisdnU Z-iH	-	-	0(1)	-	0 (1)	1 (2)	1 (2)	-	•	•	1 (2)	1 (2)	-	•	1 (2)	1 (2)	4	1	•	•	•	1 (2)	•	•	1 (2)		-	•	•	•		•		•
Ξ	MIC Inputs*		-	2 (1)		2 (1)	2 (1)	6 (4)	-	•		2 (1)	6 (4)	-	•	2 (1)	6 (4)	2 (1)	1	•	•		6 (4)	•	•	6 (4)		1	•	•	•		•		
	TEL Input*		T	-	-	-	-	0 (1)	-	•		-	0 (1)	-	•	-	0 (1)	0 (1)	1		•	•	0 (1)	•	•	0 (1)		1	•	•	•	•	•	•	
	Amp Channels	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	-	-	-	-	-	-	-	1	-	-	2/1	2	2/1	2	2/1
	Model Numbers	GA2	GA6A	C10	TPU15A	C20	C35	6835	TPU35B	V35	BPA60	090	0989	TPU60B	090	C100	GS100	PM3180	TPU100B	V100	WV100	HTA125A	GS150	V150	WV150	GS250	HTA250A	TPU250	V250	WV250	M300	X300	M450	X450	M600
	Amplifier Output Power Rating/ Channel	1.5W	6W	10W	15W	20W	35W	35W	35W	35W	M09	M09	M09	W09	M09	100W	100W	100W/60W/20W	100W	100W	100W	125W	150W	150W	150W	250W	250W	250W	250W	250W	300/600W	300W	450/900W	450W	600/1200W

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.

† BAL2S balanced input module included standard; uses one modular input bay.

Specifications subject to change without notice.

# AMPLIFIER SPECS CHART

10W	Model	Output Power	Change	Eventional Decembers.	***************************************	Cnoolog Outunto	AC Line	Dimonojono	Product
10W	Numbers	natility/ bilalilie	cilalife	nequency nesponse	DISTOITION	opeaner outputs	Diaw	Dillicitations	Weighit
100W   1   70 Hz to 16 kHz   1% Max   1% Max   100W   1   200 Hz to 16 kHz   17% Max   15 W Max   200 Hz to 20 kHz   20% Max   1   300 Hz to 15 kHz   25% Max   1   300 Hz to 20 kHz   10 max   150W   20 Hz to 20 kHz   17	BPA60	M09	-	20 Hz to 20 kHz	2% Max	8-ohm/25V, 16-ohm, 25VCT, 70V	180W	15-1/4" W × 3-1/2" H × 8-1/4" D	17 lb.
20W	C10	10W	,	11.02	70.7	70V, 25V, 16-ohm,	38W	CHO/O CHIRO/COMBO/OFF	5 lb.
150W	C20	20W		/0 Hz to 16 kHz	1% Max	8-ohm, 4-ohm	50W	11-3/8 W X 2-//8 H X /-3/8 D	6 lb.
60W         1         70 Hz to 16 kHz - Transformer, 19% Max         19% Max           15W         1         20 Hz to 20 kHz - Direct         2% Max           6W         1         30 Hz to 12 kHz         2% Max           8W         1         30 Hz to 12 kHz         2% Max           6W         1         30 Hz to 20 kHz - Direct         2% Max           150W         2         20 Hz to 20 kHz - Direct         0.5% Max           250W         20 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2);	C35	35W				70V, 25V, 16-ohm.	85W		15 lb.
1.5W	090	M09	-	70 Hz to 16 kHz - Transformer;	1% Max	4-ohm direct	148W	14-1/2" W × 3-3/4" H × 11" D	17 lb.
1.5W   1   200 Hz to 15 kHz   2% Max     50W   1   30 Hz to 12 kHz   2% Max     60W   1   30 Hz to 12 kHz   2% Max     60W   1   20 Hz to 20 kHz - Transformer;   0.5% Max     150W   2   20 Hz to 20 kHz - Transformer;   0.5% Max     250W   2   20 Hz to 20 kHz - Transformer;   0.5% Max     100W   3   20 Hz to 20 kHz - Transformer;   1% - Amp 1 & 2.	C100	100W		20 Hz to 20 kHz - Direct		8-ohm on C35 and C60	220W		19 lb.
58W   1   30 Hz to 12 kHz   2% Max     60W   65 Hz to 20 kHz - Transformer;   0.5% Max     125W   2 O Hz to 20 kHz - Direct   0.5% Max     2560W   2 O Hz to 20 kHz - Direct   0.5% Max     260W   2 O Hz to 20 kHz - Trans (Amp 1 & 2);   1% - Amp 3     15W   2 O Hz to 20 kHz - Direct (Amp 3);   1% - Amp 3     15W   2 O Hz to 20 kHz - Direct (Amp 3)   1% - Amp 3     15W   2 O Hz to 20 kHz - Direct (Amp 3)   1% - Amp 3     15W   2 O Hz to 15 kHz - Direct (Amp 3)   1% - Amp 3     15W   2 O Hz to 15 kHz - Direct (Amp 3)   1% - Amp 3     15W   2 O Hz to 15 kHz - Direct (Amp 3)   1% - Amp 3     15W   2 O Hz to 15 kHz - Direct (Amp 3)   1% - Amp 3     15W   2 O Hz to 20 kHz - Transformer;   100W     100W   250W   1   45 Hz to 20 kHz - Direct (Max)     100W   250W   2 O Hz to 20 kHz - Direct (Max)     100W   2 O Hz to 20 kHz - Direct (Max)	GA2	1.5W	-	200 Hz to 15 kHz	2% Max	8- & 600-ohm	4W	5-1/2" W x 4-1/8" H x 2-1/4" D	2 lb.
150W   1   20 Hz to 20 KHz - Direct   0.5% Max     150W   2	GA6A	6W	-	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.
1500W   1   20 Hz to 20 KHz - Direct   0.5% Max     1250W   2 D Hz to 20 KHz - Direct   0.5% Max     1250W   2 D Hz to 20 KHz - Direct   0.5% Max     250W   2 D Hz to 20 KHz   2 D KHz     100W   3 D Hz to 20 KHz - Trans (Amp 3);   1% - Amp 18;   1% - Amp 3	6835	35W					0.9A		17 lb.
100W   1   20 Hz to 20 kHz - Direct   0.5% Max     250W   250W   1   20 Hz to 20 kHz - Direct   0.5% Max     250W   20 Hz to 20 kHz - Trans (Amp 3), 1% - Amp 18.2; 1% - Amp 3     100W   3   20 Hz to 20 kHz - Trans (Amp 18.2); 1% - Amp 3     20W   1   70 Hz to 15 kHz - Trans (Amp 18.2); 1% - Amp 3     20W   1   70 Hz to 12 kHz - Direct (Amp 3)   1% - Amp 3     20W   1   70 Hz to 12 kHz   1% Max     150W   1   70 Hz to 15 kHz - Direct (Amp 3)   1% - Amp 3     250W   250W   1   70 Hz to 20 kHz - Transformer; 1150W   150W     150W   1   45 Hz to 20 kHz - Transformer; 1150W   1   45 Hz to 20 kHz - Transformer; 1150W   1   45 Hz to 20 kHz - Direct (Max)     250W   20 Hz to 20 kHz - Transformer; 1150W   1   45 Hz to 20 kHz - Direct (Max)     250W   250W   20 Hz to 20 kHz - Direct (Max)     300W   20 Hz to 20 kHz - Direct (Max)     300W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 kHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 Hz to 20 KHz - Direct (Max)     450W   20 Hz to 20 H	0989	M09		65 Hz to 20 kHz - Transformer		70V, 25V, 25VCT,	1.3A		20 lb.
150W   125W   1   20 Hz to 20 KHz   0.5% Max   250W   300,600W   0   0   0   0   0   0   0   0   0	GS100	100W	-	20 Hz to 20 KHz - Direct	0.5% Max	8-ohm, 4-ohm direct	2.2A	16-1/2" W x 3-1/2" H x 13-1/2" D	23 lb.
125W	GS150	150W					3.0A		29 lb.
1250W   1	GS250	250W					5.0A		30 lb.
250W   2	HTA125A	125W	,	-H4 06 04 -H 06	0.5% May	70V, 25VCT, 25V,	260W	19" W × 5-17" H	36 lb.
300/600W   2	HTA250A	250W	-	ZU TIZ LU ZU KHZ	0.0 / 0 INIAA	8-ohm, 4-ohm	520W		50 lb.
450/900W   1   20 Hz to 20 Htz   20 Hz to 20 Hz to 20 Hz to 20 Hz to 20 Hz   70 Hz to 20 Hz   70 Hz to 20 Hz   70 Hz to 15 KHz   70 Hz to 20 KHz   70 Hz t	M300	300/600W	٠				12A	G 10/7 07 11 10/7 0 1 24 167	41 lb.
100W   3   70 Hz to 20 kHz - Trans (Amp 1 & 2); 0.5% - Amp 1&2; 0.0W   20W   20 kHz - Trans (Amp 3); 1% - Amp 3   1% - A	M450	450/900W	- 0r	20 Hz to 20 kHz	0.5% Max	4- to 8-ohm (2 channel mode); 70V (1 channel mode)	15A	1/ W x 3-1/2 H x 18-1/2 D (not including brackets)	44 lb.
100W   3   7.0 Hz to 20 kHz - Trans (Amp 1 & 2);   0.5% - Amp 18.2;   7.0 Hz to 20 kHz - Trans (Amp 3);   1% - Amp 18.2;   7.0 Hz to 15 kHz - Intert (Amp 3);   1% - Amp 3   1% - Amp 3   2.0 Hz to 15 kHz - Direct (Amp 3);   1% - Amp 3   1% - Amp 3   100W   1   7.0 Hz to 12 kHz   1% Max   100W   1   7.0 Hz to 15 kHz   1% Max   150W   250W   100W   1   45 Hz to 20 kHz - Transformer;   1.50W   100W   1   45 Hz to 20 kHz - Direct   (Max)   250W   100W   1   45 Hz to 20 kHz - Direct   (Max)   1.00W   1   45 Hz to 20 kHz - Direct   (1% - Direct (Max)   250W   250W   2   20 Hz to 20 kHz - Direct (Max)   2   2   2   2   2   2   2   2   2	M600	600/1200W	-				20A		46 lb.
15W   70 Hz to 12 KHz   2% Max   35W   100W   1   70 Hz to 15 KHz   1% Max   100W   250W   45 Hz to 20 KHz - Transformer;   100W   1   45 Hz to 20 KHz - Direct   (Max)   250W   150W   1   45 Hz to 20 KHz - Direct   (Max)   250W   150W   1   45 Hz to 20 KHz - Transformer;   150W   150W   1   20 Hz to 20 KHz - Transformer;   150W   1   20 Hz to 20 KHz - Direct   (Max)   300W   2   20 Hz to 20 KHz   0.5% Max   600W   2   20 Hz to 20 KHz   0.5% Max   600W   2   20 Hz to 20 KHz   20 KHz	PM3180	100W 60W 20W	8	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.
35W   1	TPU15A	15W		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.
100W   1   70 Hz to 15 kHz   1% Max   100W   250W   35W   45 Hz to 20 kHz - Transformer;   0.1% - Direct   (Max)   100W   1   45 Hz to 20 kHz - Transformer;   0.1% - Direct   (Max)   150W   1   20 Hz to 20 kHz - Transformer;   150W   250W   250W   250W   250W   20 Hz to 20 kHz - Direct   (Max)   200W   2   20 Hz to 20 kHz	TPU35B	35W					0.75A		12 lb.
100W   35W   0.5% -	TPU60B	M09	-	70 Hz to 15 kHz	1% Max	/0V, 25V, 25VCI, 16-ohm	1.5A	14-1/4" W x 8-3/8" H x 3-5/8" D	15 lb.
250W   35W   1   45 Hz to 20 kHz - Transformer;   0.1% - Direct   150W   1   20 Hz to 20 kHz - Transformer;   0.1% - Direct   (Max)   1   250W   1   20 kHz - Transformer;   150W   1   20 kHz - Transformer;   150W   1   20 Hz to 20 kHz - Transformer;   150W   1   20 Hz to 20 kHz - Direct   (Max)   300W   2   20 Hz to 20 kHz   0.5% Max   600W   2   20 Hz to 20 kHz   20 kHz   0.5% Max   600W   2   20 Hz to 20 kHz   20 kHz   0.5% Max   600W   2   20 Hz to 20 kHz   20 k	TPU100B	100W					2A		18 lb.
35W   60W   1   45 Hz to 20 kHz - Transformer;   Transformer;   0.15% - Transformer;   0.1% - Direct (Max)   20 Hz to 20 kHz - Direct (Max)   250W   100W   1   45 Hz to 20 kHz - Transformer;   Transformer;   Transformer;   20 Hz to 20 kHz - Direct (Max)   300W   2   20 Hz to 20 kHz - Direct (Max)   600W   2   20 Hz to 20 kHz   0.5% Max   600W   2   20 Hz to 20 kHz   0.5% Max   600W   2   20 Hz to 20 kHz   0.5% Max   600W   2   2   2   2   2   2   2   2   2	TPU250	250W			•	700, 250	5A	19" W x 10-1/2" H x 3-7/8" D	28 lb.
60W	V35	35W					0.6A		22 lb.
100W	09/	M09			0.5%		1.3A		26 lb.
150W   100W   1   45 Hz to 20 kHz - Transformer;   (Max)   100W   250W   100 kHz - Direct   (Max)   100W   20 Hz to 20 kHz - Direct   (Max)   300W   2   20 Hz to 20 kHz   0.5% Max   600W   2   20 Hz to 20 kHz   0.5% Max   0.5% Ma	V100	100W	-	45 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.1% - Direct	70V, 25V, 8-ohm, 4-ohm direct	2.0A	17-1/4" W x 3-7/8" H x 14 -3/4" D	28 lb.
100W	V150	150W			(Max)		3.5A		31 lb.
100W   1	V250	250W					5.5A		32 lb.
150W   1	WV100	100W			0.5% -		2.0A		27 lb.
250W   2012.02.01.12   0.000	WV150	150W	-	45 Hz to 20 KHz - Iranstormer;	0.1% - Direct	70V, 25V, 8-ohm,	3.5A	14-1/8" W × 21" H	29 lb.
300W         2         20 Hz to 20 kHz         0.5% Max           600W         0.5% Max	WV250	250W		20 12 10 20 11 12 10 20 11 12	(Max)		5.5A		28 lb.
450W         2         20 Hz to 20 kHz         0.5% Max           600W         600W         0.5% Max	X300	300W					12A	G #7/4 O + \ \ U = 0/4 C \ M = Z +	41 lb.
_	X450	450W	2	20 Hz to 20 kHz	0.5% Max	70V direct	15A	(not including brackets)	44 lb.
	009X	W009	_				20A		46 lb.

<sup>\*@ -2</sup>dB FRP Transformer output; @ FRP for Direct outputs

<sup>\*\*</sup> Bandwidth limited to frequency response

<sup>\*\*\*</sup>FRP @ 120V AC line voltage