

**AMK Commercial Series** 

## **PSA615**

Self Amplified 6.5" Coaxial Loudspeaker Assembly





The **AMK PSA615** self amplified speakers feature a 30 watt Class D digital design amplifier, with > 75% efficiency for the main speaker. These units are available as single master speakers or sets with an unpowered companion speaker (**PSA615-P**) The speaker combines high performance, power handling, and a very smooth response.

The loudspeaker driver, CX602, is one of the few transducers in the commercial sound industry that produces and meets the standards of recording studio. Excellent dispersion, wide bandwidth, and a smooth frequency response make this the top choice for today's overhead commercial applications.

There are wide ranges of the application for this unit, especially in educational markets and corporate boardrooms where direct input of the signal from the processor is desired (i.e., projectors, laptops, or any line level device)

#### Features:

- \* All metal construction, including baffle
- \* High performance 6½" coaxial loudspeaker with wide dispersion
- \* Self powered with 30 watt Class D digital amplifier
- \* UL Listed Speaker Enclosure (UL 1480, UL 2043)

#### **Innovative Features**

Each system includes a renowned AMK Coaxial loudspeaker like those already installed in hundreds of locations

#### Easy to install

- All-metal swivel mounting system allows standard installation of speakers without having to align the enclosure to the tile bridge
- This installation procedure is quick and unique to the industry
- Architecturally pleasing white perforated metal grille that uses a unique metal spring system for a "no visible hardware finished look and the ease of a "snap on" installation

#### Safety

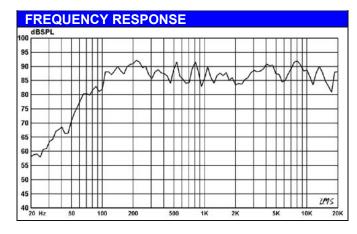
- The use of all-metal attachment parts makes for an overall safer installation
- All-metal swivel prevents breakage of swivel during installation
- All-metal swivel mounting system is not easily compromised by fire

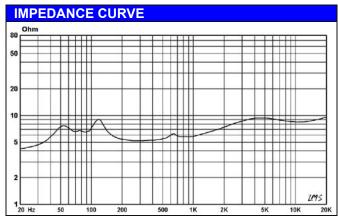
#### Sound

 The plenum compatible back enclosure is designed to maximize the performance of this studio quality speaker

Specifications	
Frequency Response	65 Hz - 20 kHz
Voice-coil diameter	1"
Average Beamwidth @ 2 kHz	144 deg.
Magnet Weight	13 oz
Magnet Material	Barium Ferrite
Tweeter	13mm Polyamide Soft Dome
Woofer Cone	Polypropylene
Crossover Frequency	5.0 kHz
Depth of the Enclosure	10 in.
Diameter of the Grille	12.75 in.
Enclosure Mounting	Metal Swivel Clamp
Certifications and Listing	UL 1480 / 2043, CE, RoHS

Amplifier Specifications	
Amplification	30 watt Class D digital amplifier
Amplifier Efficiency	> 75%
Total Harmonic Distortion	< 0.2%
Signal to Noise Ratio	>95dB
Protection	Protected as to short circuit to supply and ground, as well as minimum current
Controls	Input potentiometer level adjustment





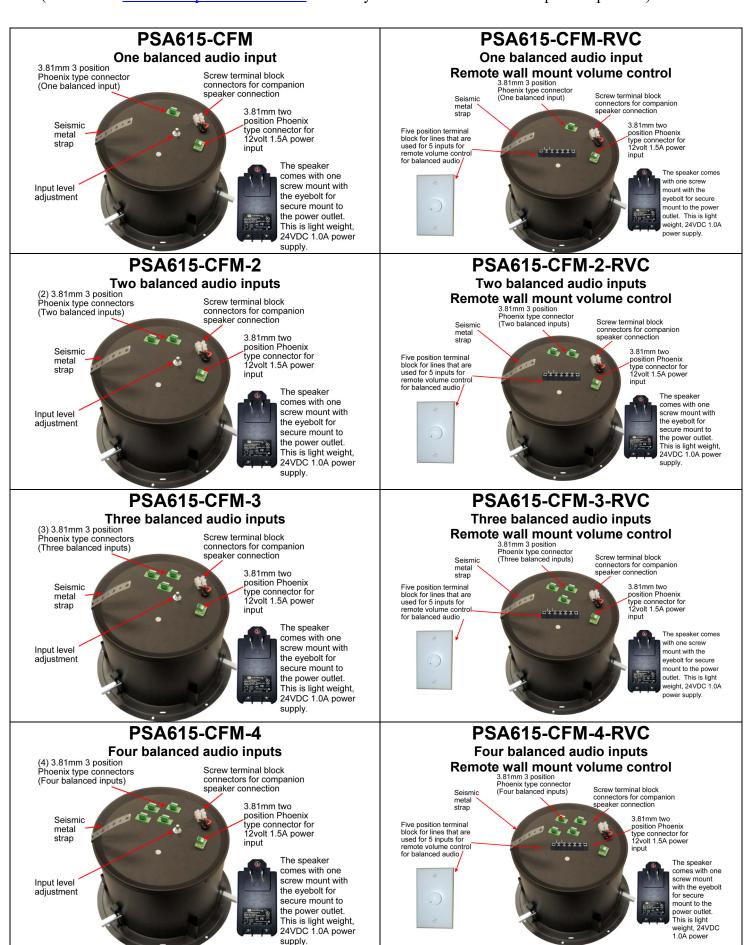
# **Model Options**

Model	Power Supply	Power Connection	Input Connection	Signal Input	Slave input/output connections
PSA615-CFM	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	3.81mm three position Phoenix type connector	One balanced audio input nput	Screw terminal block connectors
	et of Powered and Companion S  P (Set of powered speaker with		M-RVC (Powered speaker mpanion speaker)	with the remote conti	rol)
PSA615-CFM-2	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	(2) 3.81mm three position Phoenix type connector	Two balanced audio Inputs	Screw terminal block connectors
	Set of Powered and Companion C-P (Set of powered speaker wit		FM-2-RVC (Powered spe	aker with the remote o	control)
PSA615-CFM-3	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	(3) 3.81mm three position Phoenix type connector	Three balanced audio Inputs	Screw terminal block connectors
	Set of Powered and Companion C-P (Set of powered speaker wit		FM-3-RVC (Powered spe	aker with the remote o	control)
PSA615-CFM-4	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	(4) 3.81mm three position Phoenix type connector	Four balanced audio Inputs	Screw terminal block connectors
	Set of Powered and Companion C-P (Set of powered speaker wit		FM-4-RVC (Powered spe	aker with the remote o	control)
PSA615-CFS	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	3.81mm four position Phoenix type connector	Stereo to Mono unbalanced	Screw terminal block connectors
	et of Powered and Companion Sp  (Set of powered speaker with t		S-RVC (Powered speaker	with the remote contro	ol)
PSA615-JFM	12Volt 2A desktop power supply	2.5mm N jack	3.81mm three position Phoenix type connector	One balanced audio input nput	Screw terminal block connectors
	et of Powered and Companion Sp  (Set of powered speaker with t		I-RVC (Powered speaker	with the remote contro	ol)
PSA615-JFM-2	12Volt 2A desktop power supply	2.5mm N jack	(2) 3.81mm three position Phoenix type connector	Two balanced audio Inputs	Screw terminal block connectors
	Set of Powered and Companion C-P (Set of powered speaker witl		FM-2-RVC (Powered spea	ker with the remote c	ontrol)
PSA615-JFM-3	12Volt 2A desktop power supply	2.5mm N jack	(3) 3.81mm three position Phoenix type connector	Three balanced audio Inputs	Screw terminal block connectors
	Set of Powered and Companion C-P (Set of powered speaker witl		FM-3-RVC (Powered spea	ker with the remote c	ontrol)
PSA615-JFM-4	12Volt 2A desktop power supply	2.5mm N jack	(4) 3.81mm three position Phoenix type connector	Four balanced audio Inputs	Screw terminal block connectors
	Set of Powered and Companion C-P (Set of powered speaker witl		FM-4-RVC (Powered spea	ker with the remote c	ontrol)
PSA615-JFS	12Volt 2A desktop power supply	2.5mm N jack	3.81mm four position Phoenix type connector	Stereo to Mono unbalanced	Screw terminal block connectors
	t of Powered and Companion Sp (Set of powered speaker with t		RVC (Powered speaker w	rith the remote control	)

# **Model Options**

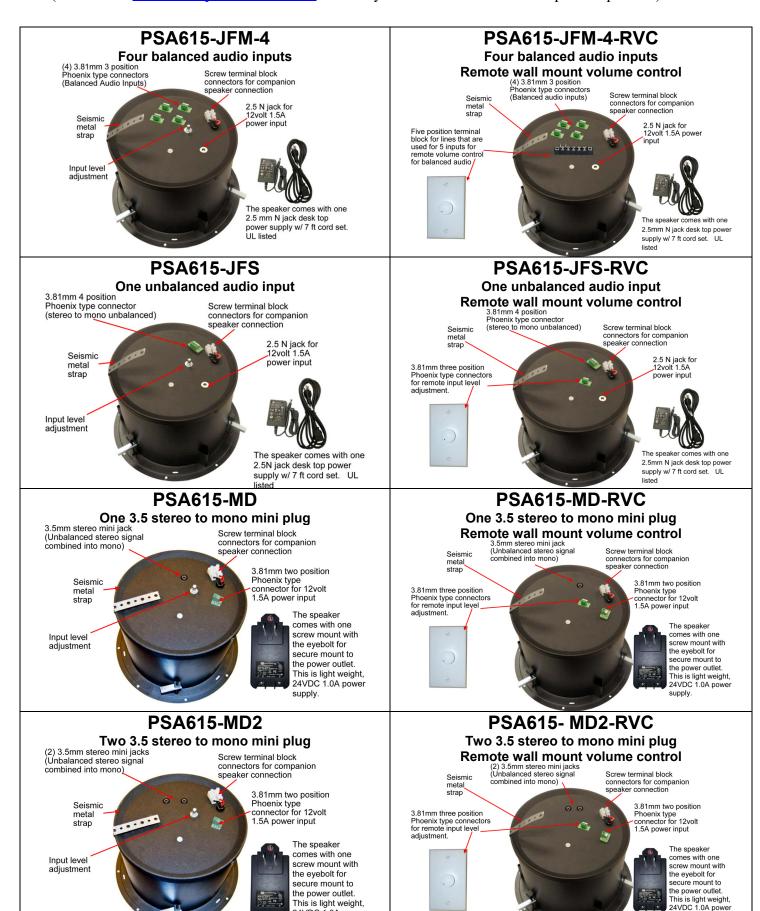
(Please visit <a href="www.amkspeaker.com/build">www.amkspeaker.com/build</a> to build your own choices of self amplified speakers)

Model	Power Supply	Power Connection	Input Connection	Signal Input	Slave input/output connections			
PSA615-MD	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	3.5mm miniplug jack	Stereo to Mono unbalanced	Screw terminal block connectors			
Added Suffixes:  PSA615-MD-P (Set of Powered and Companion Speaker) PSA615-MD-RVC (Powered speaker with the remote control) PSA615-MD-RVC-P (Set of powered speaker with the remote control and a companion speaker)								
PSA615-MD2	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	(2) audio inputs of 3.5mm miniplug jack	Stereo to Mono unbalanced	Screw terminal block connectors			
PSA615-MDL	12Volt 2A desktop power supply	2.5mm N jack	3.5mm miniplug jack	Stereo to Mono unbalanced	Screw terminal block connectors			
Added Suffixes:  PSA615-MDL-P (Set of Powered and Companion Speaker)  PSA615-MDL-RVC (Powered speaker with the remote control)  PSA615-MDL-RVC-P (Set of powered speaker with the remote control and a companion speaker)								
PSA615-MD2L	12Volt 2A desktop power supply	2.5mm N jack	(2) audio inputs of 3.5mm miniplug jack	Stereo to Mono unbalanced	Screw terminal block connectors			
	Set of Powered and Companion P (Set of powered speaker with		D2L-RVC (Powered speal ompanion speaker)	ker with the remote co	ontrol)			
PSA615-OM	12Volt 2A desktop power supply	2.5mm N jack	One RCA phono jack	One unbalanced Input	Screw terminal block connectors			
Added Suffixes:  PSA615-OM-P (Set of Powered and Companion Speaker)  PSA615-OM-RVC (Powered speaker with the remote control)  PSA615-OM-RVC-P (Set of powered speaker with the remote control and a companion speaker)								
PSA615-RPM	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	One RCA phono jack	One unbalanced audio input nput	Screw terminal block connectors			
	et of Powered and Companion S  P (Set of powered speaker with		M-RVC (Powered speaker)	r with the remote cont	rol)			
PSA615-RPS	24v 1A, screw mount, ITE wall wart power supply	3.81mm two position Phoenix type connector	Two RCA phono jacks	Stereo to Mono unbalanced	Screw terminal block connectors			
	et of Powered and Companion S P (Set of powered speaker with		S-RVC (Powered speaker mpanion speaker)	with the remote contr	ol)			
PSA615-SM	12Volt 2A desktop power supply	2.5mm N jack	Two RCA phono jacks	Stereo to Mono unbalanced	Screw terminal block connectors			
	of Powered and Companion Sp (Set of powered speaker with th		RVC (Powered speaker wi panion speaker)	ith the remote control)				



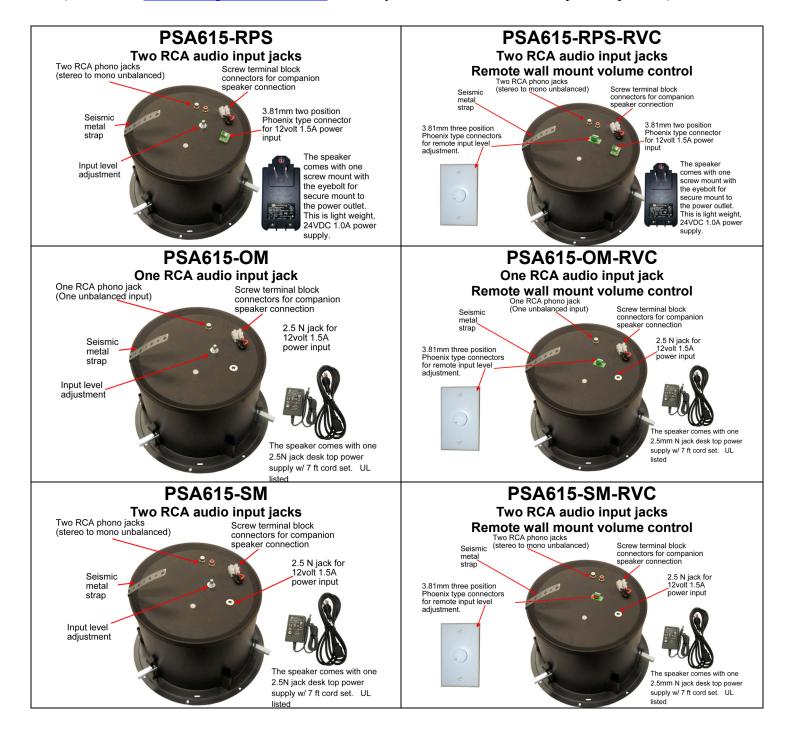


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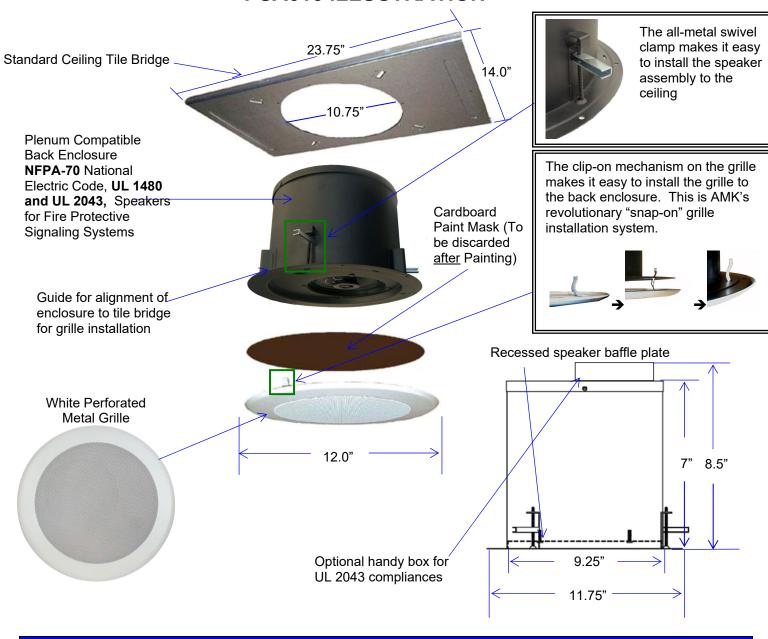


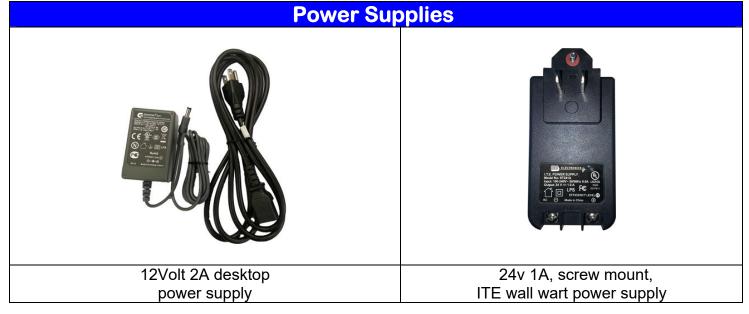
This is light weight, 24VDC 1.0A power supply.





## **PSA615 ILLUSTRATION**





#### **Architect's & Engineer's Specifications**

The powered loudspeaker system shall be **AMK PSA615(-\_\_\_\_).** The speaker shall feature a 30watt Class D design amplifier, with >75% efficiency for the speaker. The powered speaker assembly in the system shall be of the coaxial type with an 6.5" woofer of polypropylene, an inverted rubber surround, and a 1" polyamide soft dome tweeter mounted on a post. The loudspeaker system shall have a white metal round grille that screws into the rim of the mounting enclosure. The system shall have input potentiometer for level adjustment.

The transducer in the loudspeaker system shall be AMK CX 602 coaxial loudspeaker. The woofer shall have a 13 oz. (369g) Barium Ferrite magnet. The two reproducer sections shall be coupled through a built-in capacitor bypass crossover. The crossover frequency shall be at 5.0 kHz. The low frequency reproducer shall have 1" (25.4mm) voice coil and the high frequency reproducer shall have 0.51" (13mm) voice coil.

The system shall have a frequency response of 65 Hz- 20 kHz (+/- 5dB). The power handling shall be 25watts at 4 ohm impedance. The sensitivity shall be 91dB at 1watt / 1meter.

The rim diameter shall be 11.75". The enclosure diameter shall be 9.25". The depth of the enclosure shall not exceed 11.75". The system shall include a tile bridge. The system shall have a metal strap for attachment to the structure for seismic protection.

The total weight of the unit system shall not exceed 9.0 lbs.

The loudspeaker system shall be AMK Innovations model **PSA615(-\_\_\_)**.

Conforms to EIA Standards: RS-276-A, RS-278-B, RS-426-A

#### **Polar Responses**

