



**CPA650 dual channel power amplifiers are designed to supply reliable service in permanent installations. CPA650 amplifiers have complete overload, short-circuit, and thermal protection, with automatic reset. Barrier strip input and 5-way binding post output connectors provide trouble free, dependable connections. CPA650 amplifiers are passively cooled for quiet operation, and require no filter maintenance. CPA650 amplifiers are UL listed and are covered by a five-year warranty.**

### FEATURES

- balanced inputs on barrier strip terminals
- 325 watts/channel @ 4 ohms (stereo)
- 200 watts/channel @ 8 ohms (stereo)
- 650 watts @ 8 ohms (mono bridge)
- peak indicators on each channel
- detented level controls (front or rear mounting)
- turn-on muting to prevent "thumping"
- recessed ground lift switch to eliminate ground loops
- recessed mono bridge switch
- passively cooled (no fan noise or maintenance)
- optional distribution autoformer (rear panel mounting)
- **CE** marked and **UL** listed
- **RoHS** compliant with EU Directive 2002/95/EC
- covered by Biamp Systems' five-year warranty

### ARCHITECTS & ENGINEERS SPECIFICATION

The power amplifier shall be capable of stereo or mono-bridged operation. It shall provide a reliable minimum power output of 325 Watts per side into 4 Ohm loads in stereo mode, 200 Watts per side into 8 Ohm loads in stereo mode, or 650 Watts into an 8 Ohm load in mono-bridged mode. The amplifier shall be passively cooled, and shall have complete short-circuit, overload, and thermal protection with automatic reset. Input connections shall be barrier strip terminals, and output connections shall be 5-way binding posts. The rotary level controls shall be able to be mounted on the front or rear panel. The amplifier shall have a front panel power switch and indicator, as well as a peak indicator for each channel. A rear panel switch shall provide signal & chassis ground isolation. Rear panel holes shall provide mounting of optional autoformers for distributed speaker systems.

Frequency Response shall be +0/-1dB from 20Hz to 20kHz. THD + Noise shall be less than 1.0% from 25Hz to 20kHz at rated power. Signal-to-Noise Ratio shall be greater than 98dB at rated power into 8 Ohms. Power consumption shall be less than 1500 Watts. Dimensions shall be 5.25 inches (3 rack spaces) high, 19 inches wide, and 11 inches deep. Weight shall be 33 lbs. The amplifier shall be CE marked and shall be UL listed when installed in a fan cooled rack. The amplifier shall be compliant with EU Directive 2002/95/EC, the RoHS directive. The amplifier shall be covered by a five-year warranty.

The amplifier shall be a BIAMP CPA650.

## CPA650 SPECIFICATIONS

<b>Maximum Power Output (2kHz, 120VAC):</b>		<b>Sensitivity:</b>	1 Vrms (2.2dBu)
both channels driven into 4 ohms	325 watts/channel	<b>Power Requirements:</b>	120/220VAC 50/60Hz
both channels driven into 8 ohms	200 watts/channel	<b>Power Consumption:</b>	1500 watts max.
mono-bridge into 8 ohms	650 watts	<b>Dimensions:</b>	
<b>Signal-to-Noise Ratio (22Hz-22kHz):</b>		height (3 rack spaces)	5.25 inches (133mm)
rated power into 8 ohms	98dB	width	19 inches (483mm)
<b>Total Harmonic Distortion + Noise:</b>		depth	11 inches (279mm)
25Hz-20kHz @ rated power	< 1.0%	<b>Weight:</b>	33 lbs. (14.97kg)
2kHz @ rated power (typical)	< 0.08%	<b>Compliance:</b>	EU Directive 2002/95/EC, RoHS directive
<b>Intermodulation Distortion (SMPTE):</b>			CE marked
<b>Frequency Response (20Hz-20kHz):</b>			UL listed
<b>Input Impedance:</b>			
balanced	20k ohms		
unbalanced	10k ohms		

## CPA650 REAR PANEL DIAGRAM

