



# HIGH PERFORMANCE DUAL CHANNEL COMMERCIAL AUDIO AMPLIFIER

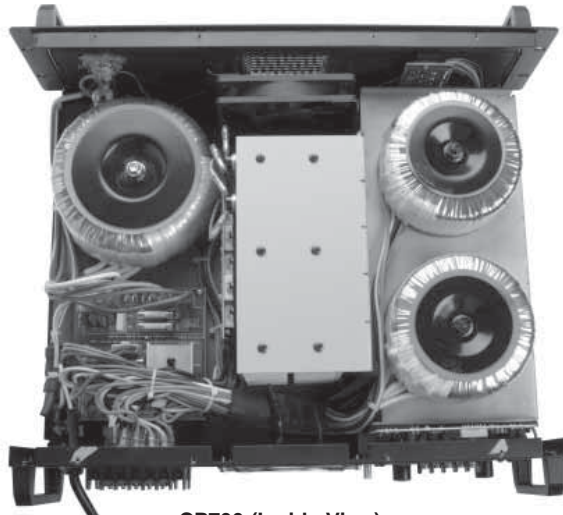
**CP700  
Amplifier**



CP700 (Front View)



CP700 (Rear View)



CP700 (Inside View)

## FEATURES

- Two channel with 25/70.7/100V and 8/4/2 Ohm output capability
- Short circuit, temperature and DC offset protection
- Rear mounted stepped attenuators
- Stereo/Parallel and Bridge Mono Operating Modes
- Balanced Inputs on Barrier Strip and XLR Connectors
- Dual Speed, High Efficiency Fan Cooling
- 350W per channel @ 70.7V, 240W per channel @ 8 Ohm

## GENERAL DESCRIPTION

The Atlas Sound CP700 is a high power dual channel amplifier with independent internal power supplies, providing excellent channel separation and low distortion. Rear mounted stepped attenuators provide gain setting repeatability and ease of setup. Front panel mounted indicators provide status of signal present, limiter operation, and protection circuit operation. In addition to having rear mounted barrier strips for inputs and outputs for permanent installations, the Atlas Sound CP700 also has XLR input connectors for portable sound equipment use. In Bridge Mono mode, the CP700 can provide 140V/200V operation for long, speaker lines and large speaker loads. Large toroidal output transformers (1 per channel) provide outstanding isolation for commercial applications.

*Specifications subject to change without notice*



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## SPECIFICATIONS

DIRECT POWER OUTPUTS		PROTECTION CIRCUITS
Max Average Power @ 35Hz-20kHz with 0.1% THD (10-80k Filter)		Output Offset Voltage Protection Heat Sink Overheat Protection Transformer Overheat Protection Load Shorting Protection Soft Clip Limiters
8 Ohm, 30Hz-20kHz, 0.1% THD	240W x 2	
8 Ohm, 1kHz, 0.1% THD	300W X 2	
4 Ohm, 1kHz, 0.1% THD	400W X 2	
2 Ohm, 1kHz, 0.1% THD	550W X 2	
Bridged Mono 8 Ohm 1kHz, 1% THD	850W	
Bridged Mono 4 Ohm 1kHz, 1% THD	1100W	
TRANSFORMER OUTPUTS		CONTROLS
25V	280W X 2	Power Switch, Ch 1/Ch 2 gain (41 step) Parallel/Stereo/Bridge Switch
70V	350W X 2	
100V	350W X 2	
140V Bridged	700W	
200V Bridged	700W	
FREQUENCY RESPONSE		COOLING
Direct Outputs (+0/-3dB)	30Hz-50kHz	Dual Speed Fan, Temperature Controlled
Transformer Outputs (+0/-3dB)	30Hz-16kHz	
THD+N		INDICATORS
8 Ohm, 1kHz, 240W per channel	<.05%	Power, Protect, Signal, Limit
SENSITIVITY		DIMENSIONS
Rated Output into 8 Ohms	1.25V	132mm X 480mm X 428mm (5.19" X 18.9" X 16.85")
VOLTAGE GAIN		NET WEIGHT
32dB		24.3kg (54 lbs)
INPUT IMPEDANCE		SHIPPING WEIGHT
Balanced/Unbalanced	20k/10k Ohm	26kg (57 lbs)
DAMPING FACTOR		
8 Ohms Output, 10 Vrms	>200dB	
S/N RATIO		
8 Ohms per Channel @ 240W	100dB	

### ARCHITECT & ENGINEER SPECIFICATIONS

The amplifier shall be Atlas Sound CP700 Commercial Audio Amplifier. The power amplifier shall have two channels. At 8 Ohms, 30Hz-20kHz, it shall deliver 240 Watts per channel. At 4 Ohms, 1kHz, it shall deliver 400 Watts per channel. At 2 Ohms, 1kHz, it shall deliver 550 Watts per channel. In bridge mono mode, with an 8 Ohm load, it shall deliver 850 Watts. In bridge mono mode, with a 4 Ohm load, it shall deliver 1100 Watts. The amplifier shall have internal circuits to protect itself from output short circuits and thermal overload and will protect attached loudspeakers from amplifier failure and DC voltages.

A variable speed fan shall provide heat sink cooling. Each channel to have an input sensitivity of 1.25V, frequency response shall be 30Hz-50kHz +0/-3dB direct mode and 30Hz-16kHz +0/-3dB in transformer mode. Front panel indicators to include signal present, limiter, and protection LEDs. Rear mounted stepped attenuators to provide repeatability of gain settings. Input terminations shall be balanced on barrier strip terminals or XLR female connectors. Loudspeaker outputs shall be of the barrier strip type. A switch on the rear panel to provide selection of Stereo, Parallel, and Bridge Modes of operation. Dimensions shall be 5.19" X 18.9" X 16.85" and the amplifier shall weigh 57 lbs.

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