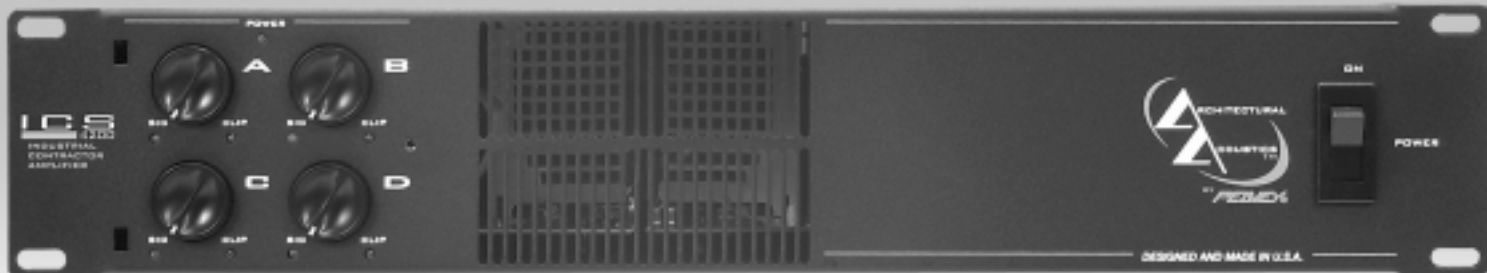


Specifications ICS™ 4200 power amplifier



DESCRIPTION

The ICS™ 4200 is a 4-channel power amplifier designed for years of reliable, flawless operation under rigorous use. This amplifier offers the sonic superiority and unsurpassed reliability for which Peavey is famous, while remaining surprisingly compact. Advanced technology and extensive protection circuitry allow operation with greater efficiency into difficult loads and power conditions. The SPS™ (Speaker Protection System) circuitry ensures trouble-free operation into loads as low as 4 Ohms. This amplifier is ideal for paging systems, foreground and background music distribution as well as other applications that may require multiple zones. Each channel delivers 200 Watts of power!

Although the ICS 4200 amplifier is quite simple to operate and is housed in ultra-strong steel chassis, improper use can be dangerous. This amplifier is very high-powered and can put out high voltages and sizable currents. Always use safe operating techniques when operating this amplifier.

FEATURES

- 4-channel power amp system—200 Watts RMS per channel
- Low Z (4 or 8 Ohms) or 70 V output—selectable in 2-channel pairs
- Dedicated Euro-type, electronically-balanced input connectors
- Two input ports: accepts MMA™ plug-in input modules—dip-switch selectable to any channel



By PEAVEY

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- Front panel detented level controls—with security cover
- Front panel AC power switch/circuit breaker
- Short circuit and thermal protection circuitry
- Rugged, rack-mount design—2U rack space
- Two-speed fan-cooled design
- Front panel LED indicators per channel: signal and clip

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

Multi-channel power amplifier.

The multi-channel power amplifier, hereafter referred to as “amplifier,” shall be an industrial, rack-mount package designed specifically for commercial applications. The amplifier shall include a minimum of 4 independent amplifier channels in a single package, each capable of delivering 200 Watts at a minimum frequency response of 80 Hz to 20 kHz, +0, -1 dB, 1 W, 1 M into a 4 Ohm or constant voltage (70 V) load. The amplifier shall be capable of operating simultaneously in bridge or direct-coupled modes in 2-channel configurations. Rear panel switches shall allow configuration, and panel labels shall be provided to indicate proper termination of loads based on the configuration. The amplifier shall perform with less than .05% total harmonic distortion and less than .10% intermodulation distortion at 1 kHz, regardless of output configuration. The amplifier shall perform with a damping factor of more

than 140 at 8 Ohms and 400 at 70 Volts output loads. The amplifier shall have an input stage common-mode rejection ratio of -60 dB in all channels. The amplifier shall be capable of providing at least 26 dB of voltage gain in direct-coupled mode and 34 dB in constant voltage mode with an input sensitivity of 1.4 V and input impedance of 20 k Ohms. The amplifier shall provide high quality, noise-free performance of -95 dB below the rated output across the entire audio spectrum. The amplifier shall not consume more than 15.4 Amps at rated power under any configuration. At idle conditions, the amplifier shall not draw more than .7 Amps. Thermal emission shall be less than 3147 BTU per hour maximum in any configuration. The amplifier shall include front panel controls for input level attenuation. There shall be a rotary control for each channel with silk-screen labeling to indicate the gain. A front-panel AC power switch shall also be provided. Front panel signal LEDs shall be provided for each channel for audio status, including signal present and signal clipping. A mains power LED shall also be provided. The amplifier shall include integral protection circuits for over-temperature, DC, On/Off transients, subsonic audio and improper and/or short circuit loads. The amplifier shall provide connections for inputs via a 3-position, “Euro”-style, removable screw connector for each channel. Additional module bays shall be provided for adding optional input accessories for input and signal processing functions. These modules

shall provide additional functions including, but not limited to, gated microphone inputs, transformer-balanced microphone inputs, equalization, ducking and broad-band filtering. There shall be two configurable module bays, assignable to any two amplifier input channels. Output terminals shall be provided on screw-terminal barrier strips, and there shall be 2 screws for each channel. The output terminations shall be configured in such a way to provide easy access to bridge configurations without the need for additional jumpers. The amplifier shall be housed in a 16-gauge steel chassis with integral 12-gauge rack ears suitable for installation into EIA equipment racks, and shall not exceed 19" in width. The amplifier shall not exceed 3.5" in height (2 EIA spaces) and shall not require more than 18" in rack depth, including connections. The amplifier shall weigh less than 40 lbs. and shall operate from a standard domestic power supply of 120 VAC, 50-60 Hz. The amplifier shall be the Peavey Architectural Acoustics ICS 4200 or approved equal.

WARRANTY

THREE + TWO LIMITED WARRANTY
NOTE: For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box 2898, Meridian, Mississippi 39302-2898.

(Due to our efforts for constant improvements, features and specifications listed herein are subject to change without notice.)

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| SPECIFICATION | LOW Z MODE | 70 VOLT MODE |
|---|--|--|
| Rated Power (all channels driven) Dual-Dual Mono & Parallel Modes 4 Ohms 8 Ohms 70 Volts | 200 Watts 130 Watts | 200 Watts |
| Minimum Load Impedance | 4 Ohms | 25 Ohms |
| Bridged Mode 8 Ohms 16 Ohms 140 Volts | 400 Watts 260 Watts | 400 Watts |
| Minimum Load Impedance | 8 Ohms | 50 Ohms |
| Frequency Response +0, -1 dB @ 1 Watt +0, -3 dB @ full power | 80 Hz–35 kHz 60 Hz–30 kHz | 80 Hz–30 kHz 60 Hz–15 kHz |
| THD @ rated power, 1 kHz | <0.05% | <0.05% |
| IMD (SMPTE) | <0.10% | <0.10% |
| Damping Factor | >140 (8 Ohms) | >400 |
| Input CMRR | -60 dB typ | -60 dB typ |
| Voltage Gain | x20 (26 dB) typ | x50 (34 dB) typ |
| Input Sensitivity | 1.4 V (4 Ohms) typ 1.6 V (8 Ohms) typ | 1.4 V typ |
| Input Impedance | 20 k Ohms balanced 10 k Ohms unbalanced | 20 k Ohms balanced 10 k Ohms unbalanced |
| Noise and Hum Below rated output, 22 Hz–22 kHz | -95 dB | -95 dB |

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Current Consumption (Multiply current by 0.5 for 230 V units)

| | | |
|-------------|-----------------------------------|--------|
| Rated power | 15.4 A (4 Ohms) 9.9 A (8 Ohms) | 13.2 A |
| 1/3 power | 9.9 A (4 Ohms) 6.3 A (8 Ohms) | 8.6 A |
| 1/8 power | 6.6 A (4 Ohms) 4.2 A (8 Ohms) | 5.8 A |
| Idle | 0.4 A | 0.7 A |

Thermal Emission

| | | |
|-----------|--|-------------|
| 1/3 power | 3147 BTU/hr (4 Ohms) 1990 BTU/hr (8 Ohms) | 2614 BTU/hr |
| 1/8 power | 2364 BTU/hr (4 Ohms) 1500 BTU/hr (8 Ohms) | 2036 BTU/hr |

Controls

Front: 4 channel input signal attenuators, AC switch
Rear: 2 x 4 DIP switches for input module assign, 2 output mode switches

Indicator LEDs

4 clip, 4 signal, 1 power

Protection

Over-temperature, DC, turn on/off transients, subsonic, incorrect load, short-circuit

Connectors

Input: Four 3-position Euro-style detachable terminal blocks, two ports for MMA™ input modules
Output: Two 4-position barrier strips

Construction

16-gauge steel-reinforced with 12-gauge rack ears

Dimensions

Height: 3.50" (8.84 cm); 2 EIA rack spaces
Width, front: 19.00" (48.26 cm)
Width, rear: 17.00" (43.18 cm)
Overall depth: 17.05" (43.31 cm)
Mounting depth: 16.63" (42.24 cm) behind front rack ears

Weight

40 lbs. (18.1 kg)

Power Requirements

120 VAC, 60 Hz

Test Conditions

120 VAC, 60 Hz line input voltage maintained
All channels operating unless otherwise noted



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