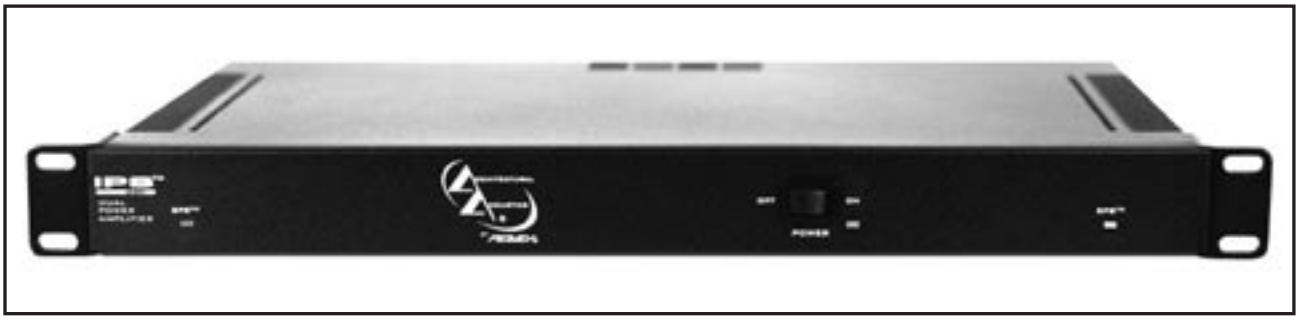
SPECIFICATIONS IPS™ 150 Industrial Power Amplifier



CHARACTERISTICS
(@ 120 V AC, 60 Hz)

Impedance Selector Setting

Output Power (typical value):

Stereo mode, both channels driven
4 ohms, 1 kHz, 1% THD
85 W RMS/chan [4 ohms]
8 ohms, 1 kHz, 1% THD
85 W RMS/chan [8 ohms] (25V)
16 ohms, 1 kHz, 1% THD
85 W RMS/chan [16 ohms]

Bridge mode, mono
8 ohms, 1 kHz, 1% THD
170 W RMS [4 ohms]
16 ohms, 1 kHz, 1% THD
170 W RMS [8 ohms]
32 ohms, 1 kHz, V% THD
170 W RMS [16 ohms] (70 V)

Rated Output Power:

Stereo mode, both channels driven
4 ohms, 20 Hz to 20 kHz, 0.1% THD 75 W RMS per chan [4 ohms]
8 ohms, 20 Hz to 20 kHz, 0.07% THD 75 W RMS per chan [8 ohms] (25 V)
16 ohms, 20 Hz to 20 kHz, 0.05% THD 75 W RMS per chan [16 ohms]

Bridge mode, mono
8 ohms, 20 Hz to 20 kHz, 0.1% THD 150 W RMS [4 ohms]
16 ohms, 20 Hz to 20 kHz, 0.07% THD 150 W RMS [8 ohms]
32 ohms, 20 Hz to 20 kHz, 0.05% THD 150 W RMS [16 ohms] (70 V)

Distortion (typical value):

Stereo mode, both channels driven
20 Hz to 20 kHz, o rated power & load
below 0.1% [4 ohms],
below 0.07% [8 ohms],
below 0.05% [16 ohms]

Input Sensitivity & Impedance:
Input attenuator set FCW, @ rated power & load
0.7 V RMS (-3 dBV) [4 ohms]
1.0 V RMS (o dBV) [8 ohms]
1.4 V RMS (+3 dBV) [16 ohms]
20 kilohms (28 dB gain)

Slew Rate (typical value):

Stereo mode, each channel
15 volts per uSec

Bridge mode, mono
30 volts per uSec

Frequency Response (typical value):

Stereo mode, both channels driven
±1 dB, 1 W RMS @ rated load
10 Hz to 40 kHz
±0.2 dB, rated power and load
20 Hz to 20 kHz

Damping Factor (typical value):

Stereo mode, both channels driven
Rated load, 1 kHz
Greater than 100 [4 ohms]
Greater than 200 [8 ohms]
Greater than 400 [16 ohms]

Hum & Noise:

Stereo mode, both channels driven below rated power, unweighted
97 dB [4 ohms]
100 dB [8 ohms]
103 dB [16 ohms]

Power Consumption:

Stereo mode, both channels driven @ rated power & load
2.5 A @ 120 V AC

Dimensions:
Height: 1.75" (4.4 cm)
Width: 19" (48.3 cm)
Depth: 8" (20.3 cm)

Weight:
22 lbs. (10.0 kg)

Features:
- 19" rack mountable
- One rack space
- 75 W RMS per channel
- 150 W RMS bridge mode
- Selectable 4, 8, or 16 ohms
- SPS™ compression each channel
- Electronically balanced inputs
- Convection cooled

Front Panel
- Heavy duty rocker power switch
- LED power indicator
- SPS activation LED each channel

Rear Panel
- Barrier strip inputs
- Barrier strip outputs
- Detented 1 dB level controls
- Stereo/Bridge mode switch
- Impedance selector switch
- Ground lift switch

ARCHITECTURAL ACOUSTICS®

By Peavey

SPECIFICATIONS IPS™ 150 Industrial Power Amplifier

Description

The IPS 150 is a rugged power amplifier with features that make it stand alone in the industry. It's a rack-mountable unit that occupies only one rack space yet packs 75 W RMS per channel into 4, 8 or 16 ohms (selectable). In bridge mode, this unit delivers 150 W RMS into 8, 16 and 32 ohms (the load impedance for a 150-watt/70-volt distribution system). There's no fan in this unit to make noise; cooling is provided by two massive aluminum heat sinks. Each channel is protected from excessive operating temperatures with a thermal/fault system that is automatic, and only activates under extreme conditions.

The IPS 150 has Peavey's exclusive SPS™ compression system that senses conditions which might overload the amplifier and activates compression circuitry when clipping is imminent. This technique utilizes every precious watt available to power the speakers via toroidal power transformer with three different voltage taps. The rear panel 3-position selector switch then gives this amp the impedance selection capability by changing the internal "rail" operating voltages. Toroidal power transformers offer very efficient operation, have very low magnetic fields and are relatively small in size.

All controls are located on the rear panel, and each channel is equipped with a separate level control. The inputs are electronically balanced. Both input and output are accessed via barrier strips.

High slew rate, high damping factor, low distortion and unmatched features make the IPS 150 the obvious choice for demanding commercial/professional applications and permanent installations.

Architectural & Engineering Specifications

The amplifier shall have two channels each capable of producing an output of more than 75 watts RMS into 4, 8, or 16 ohm loads, both channels operating from 20 Hz to 20 kHz continuously at less than 0.1% THD. In bridge mode the amplifier shall be capable of producing an output of more than 150 W RMS into 8, 16, or 32 ohm loads, operating from 20 Hz to 20 kHz continuously at less than 0.1% THD. Full output shall be achieved by an input signal of not more than 1.0 V RMS (0 dBV) per channel. Each channel shall be equipped with unique compression circuitry that electronically senses the onset of clipping and engages a specially designed circuit which virtually eliminates the possibility of driving the amplifier into clipping or distortion. A LED shall indicate when this patented SPS™ compression is activated.

Each channel shall have a +0, -1 dB frequency response from 10 Hz to 40 kHz @ 1 W RMS into 4 ohms and a +0, -0.2 dB frequency response from 20 Hz to 20 kHz @ 75 W RMS into 4 ohms, and shall have a slew rate of at least 15 volts per microsecond. The total harmonic distortion shall be less than 0.1% at 75 W RMS into 4 ohms from 20 Hz to 20 kHz, and the hum and noise shall be at least 100 dB below full rated output power measured 20 Hz to 20 kHz with a 600 ohm input termination.

The amplifier shall be stable into any load configuration with any combination of open or grounded input connections. It shall be short, mismatch, or open-circuit proof. It shall have massive aluminum heat sinks that are convection cooled and a thermal shutdown system to protect the amplifier from over-temperature operation. This thermal protection system shall be automatic and self-resetting.

The amplifier shall have all input and output patching capabilities on the rear panel. Each amplifier channel shall have an input barrier strip and an output barrier strip. Further, each channel shall contain a detented level control offering 1 dB per detent attenuation. Additionally the back panel shall contain switches for stereo/bridge select, impedance selection, and ground lift.

The front panel features shall include a rocker mains switch, an LED power indicator, and dual LED SPS activation indicators. The unit shall be rack-mountable in a standard 19" rack requiring 1 3/4" height (one rack space). The unit weight shall be 22 lbs, with dimensions 19" wide x 1 3/4" high x 8" deep. The amplifier shall operate on a 120 V AC, 50/60 Hz, and consume 300 watts. The published specifications shall be met or exceeded. The amplifier shall be a Peavey IPS 150.

Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38,13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005

Features and specifications subject to change without notice.

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