

# Hafler®

## 9505 trans•nova A m p l i f i e r

### FEATURES

#### CIRCUITRY

- All Discrete Circuitry
- JFET Front End
- trans•nova Amplifier Topology
- MOSFET Output Devices
- DIAMOND Driver Stage
- Internal Rail Fuses
- No Fan! Convection Cooled

#### CONTROLS & INDICATORS

- 5.25" Rack Mount (3-rack spaces)
- Stereo/Bridged Mono
- XLR or 1/4" Balanced Inputs
- Gold-Plated RCA Unbalanced Inputs
- Gold-Plated 5-Way Binding Posts
- Power Lamp
- Chassis/Float Ground Switch
- Rack Mount Handles

#### WARRANTY

- 7 Year Warranty



### DESCRIPTION

The 9505 model sets a new standard of sonic excellence for professional applications. Utilizing Jim Strickland's JFET input/MOSFET output trans•nova circuitry along with his brilliant DIAMOND driver stage creates the ultimate balanced amplifier.



The TRANsconductance Nodal Voltage Amplifier (patent #4467288) is a simple three-stage design delivering unparalleled speed and accuracy. The Dynamically Invariant Amplification Optimized Nodal Drive combines the linearity of Class A operation with the current headroom of a Class B system, resulting in a significant advancement in the art of power amplifier design. The sonic result of all

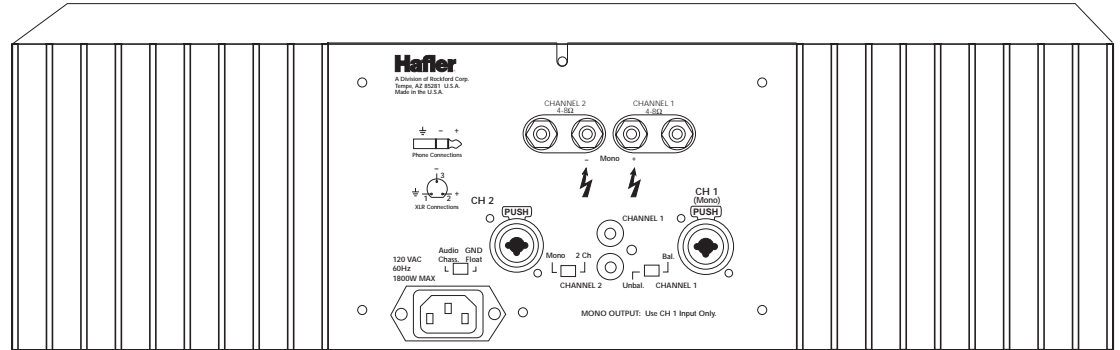
this unique technology presents a deep, wide sound stage with incredible musical transparency and detail.

Many so-called "balanced" amplifiers are merely conventional unbalanced designs with a balanced-to-unbalanced converter (usually IC op-amp based) preceding the power amplifier. The 9505, however, is a true differential input power amplifier.

Starting with the much acclaimed trans•nova amplifier core, each (+) and (-) port of the input differential stage has been buffered with a high impedance buffer pair. This allows direct signal access to the differential amplifier, without conversion to unbalanced form. Deactivating the balanced mode is accomplished via a rear panel switch that grounds the (-) balanced inputs, effectively converting the amplifier to unbalanced operation.

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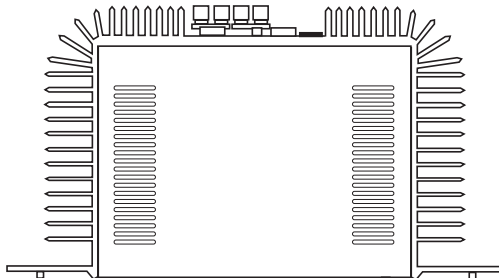


### SPECIFICATIONS

#### P9505

Power Rating .....	250 Watts/channel @ 8Ω
	375 Watts/channel @ 4Ω
	750 Watts bridged/mono @ 8Ω
Total Harmonic Distortion (THD) .....	<0.2% (20Hz-20kHz)
Signal-to-Noise .....	100dB "A" Weighted
Full Power Bandwidth .....	0.15Hz to 300kHz (+0/-3dB)
Slew Rate .....	150V/μs
CMRR (Common Mode Rejection Ratio) .....	75dB at 1kHz
Input Impedance .....	47kΩ per phase balanced
Gain .....	+29dB
Input Sensitivity Range .....	800mV (@ 8Ω) per phase balanced
	690mV (@ 4Ω) per phase balanced
Damping Factor .....	1000 (to 1kHz)
	100 (to 10kHz)
	20 (to 100kHz)
Power Consumption .....	160W / 2.0A @ 120VAC (idle power)
	370W / 4.2A @ 120VAC (1/8 power - 8Ω)
	840W / 8.8A @ 120VAC (max. power - 8Ω)
Indicators .....	Power
Dimensions .....	19"W x 12½"D* x 5¼"H (3-rack spaces)
	(48.3cm x 31.75cm x 13.3cm)
Net Weight .....	50 lbs. (22.7kg)

\*plus 1" for handles



### ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The audio power amplifier shall be a fully balanced, discrete solid state design employing JFET inputs and 16 lateral power MOSFET output devices. It shall be constructed on a 16 gauge steel chassis utilizing convection air cooling.

Each channel shall be rated for a minimum of 250 watts into an 8 ohm load and 375 watts into a 4 ohm load with both channels driven. In bridged mono mode, the amplifier shall produce at least 750 watts into an 8 ohm load. A switch shall be provided for stereo or bridged mono operation and all power ratings shall be measured from 20Hz-20kHz with less than 0.2% THD.

The amplifier's back panel shall provide a switch to select Unbalanced inputs via gold-plated RCA jacks or Balanced inputs via combination XLR and 1/4" phone jacks. The back shall also utilize gold-plated 5-way binding posts for output connectors and a switch to isolate or connect the signal ground to the chassis ground. The amplifier shall include a 3-wire grounded AC line cord and a switch to operate the UI power transformer on 120V/60Hz AC mains. An optional transformer for 230V 50-60Hz operation shall be available.

The amplifier's front panel shall incorporate a lighted main power switch and have rack handles. The amplifier shall fit standard 19" EIA rack mounting requirements utilizing 3-rack spaces. The dimensions shall be 19" Wide, 12½" Deep\* (plus 1" for handles), 5¼" High (excluding feet), and be finished in black with a net weight of 50 pounds. It shall be a Hafler 9505.

\*plus 1" for handles