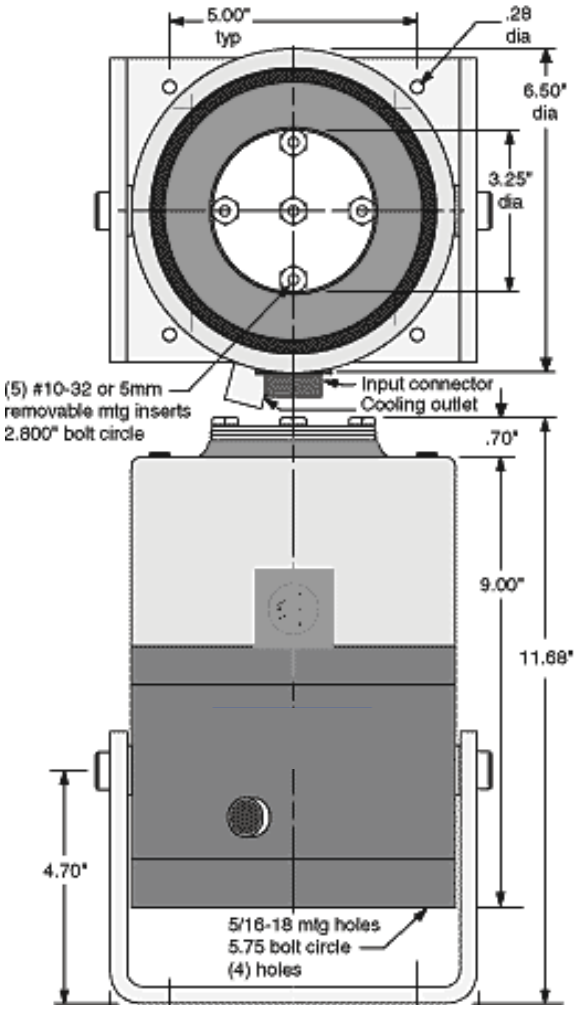
VR5600

The VR5600 is is a high performance system capable of very high acceleration (110g, bare table). It is used for general purpose as well as modal testing. The shaker field supply is integrated into the power amplifier and includes a cooling interlock to protect the shaker.

VR5600 SYSTEM SPECIFICATIONS

Sine Force	110F-lb pk
Random Force	45F-lb rms
Shock Force	110F-lb pk
Frequency Range	DC to 6,500Hz
Max Acceleration	110g pk, bare table 55g pk, 1lb. load 10g pk, 10lb load
Max Velocity	146ips pk
Max Displacement	Continuous: 1.0" pk-pk, bare table Between stops: 1.03" pk-pk, bare table
Power Requirements	3,300VA @ 100*, 110*, 200, 220 or 240V, 1Ø, 50/60Hz *consult the factory for low line voltage operation details



SHAKER PARAMETERS

PHYSICAL

Armature weight	1lb
Suspension stiffness	90lb/in
Dimensions	11.5"H x 7.4"W x 6.5"D
Shaker weight	56lbs
Stray magnetic field	Measure 1.5" above: <20gauss Measure 1.0" from body: <25 gauss
Fundamental resonance[1]	4,000 to 5,000Hz
Field power	175W

LOAD DEPENDENT PERFORMANCE

Bare table	110g pk
2lbs Load	55g pk
10lbs Load	10g pk
Cooling	Cooling blower included

Power Amplifier

VR5600 SYSTEM OPTIONS

Vibration isolation mounts

Modal stingers and mounts

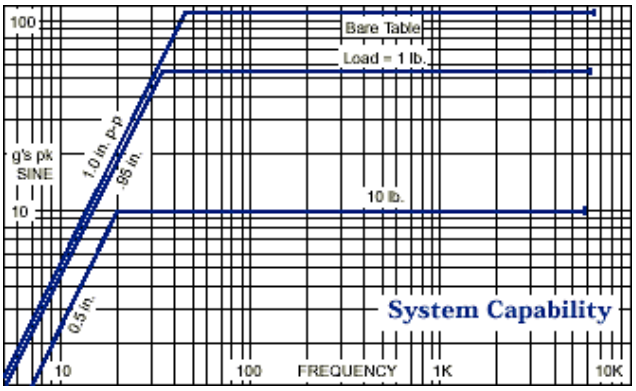
Rack cabinets

Vibration controllers

The Linear Power Amplifier is a high quality, air-cooled, direct-coupled audio amplifier primarily intended for use with vibration systems. Although this amplifier has been designed to directly drive low impedance loads, it can be used in any application requiring continuous duty, high quality, audio power. There are two operational modes: the amplifier can be used as either a wide-band, highly damped voltage source, or as a high impedance current source. DC and AC coupled signal inputs are provided. In order to insure long term reliability, the amplifier features protection from both over current and over temperature. Full interlock circuitry is also included. Peak voltage and RMS current bar graphs monitor output conditions. Optional, internal DC field power supplies are available for use in conjunction with vibration Research shakers. These options provide the convenience of a single chassis power source, as well as a fully integrated power-up and cooling interlock circuitry with the power amplifier. Switched 115Vac power is provided for shaker cooling blower and control instrument requirements. The amplifier is designed for standard 19" rack mounted installation and can be operated on 100, 120, 200, 220 or 240V, 48-62Hz power.

AMPLIFIER PARAMETERS

Output voltage	50V rms, 1,000VA
Output current	20A rms
Max. continuous dissipation	900VA
Max voltage gain	40dB
Cooling	2-speed fan, automatic
Input impedance	10,000ohms
Meters	Volts pk: 19 segment +/-5% Amps rms: 19 segment +/-5%
Interlock circuit	External, user: F.O switch or TTL Shaker, internal, optional: cooling
Optional field power	1,000W max
Input power	2,000VA max (3,000 with field) Voltage: 208 to 230Vac, 1Ø Frequency: 48 to 62Hz
Dimensions	7"H x 19"W x 17"D
Weight	48lbs



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