

M-SERIES AMPLIFIERS

for Vibration Testing

Designed to give *assured performance* to electrodynamic shakers operating in Random, Shock or Sine test modes. *Lower purchase price and reduced operating costs* made the **M-Series** the preferred choice of budget-conscious commercial and government customers alike.



AMPLIFIER FEATURES

USER BENEFITS

Pulse Width Modulation includes FET Technologies

Lower price; air cooled (*no water*); 85-90% efficiency; minimizes wasted electricity -- costs 40% less to operate than Class A/B amps

Full-Rated Power to Shaker (*250 or 125 VRMS*)

Eliminates matching transformer (and its high cost and low frequency roll-off) for many applications

250 volts RMS (full bridge)

* Higher voltage for high-velocity tests (shock, random)

* Better impedance match (*transformerless*) permits higher g random levels with light payloads

125 volts RMS (half bridge)

* Higher current for high force tests

4-Pole, Multiple-Capacity, Output Filter Design

<1% distortion at both reduced and full power; hi-reliability when passing high peak currents during random & shock tests; meets FCC limits for EMI/FRI for industrial equipment; equivalent noise floor to linear amplifiers

Peak Output Currents of 3X Continuous Duty

Ideally suited for shock, random, chirp testing; eliminates Current Ratings need to conservatively size amplifiers in such applications

Modular Design of 6 KVA Power Output Stage

Same module used for amps from 6-600 KVA; modules and amplifiers can be bussed in parallel to increment output power; field expandable

6 KVA from 3-1/2"H x 19"W Power Module

19" rack minimizes floor space; 3-1/2" maximizes number of modules per rack; reducing racks needed for larger amps; 30 lb weight makes them easy to service

Microprocessor Control Panel

Soft-start and stop for transient-free operation; indicators for signal clipping, signal presence, overvoltage, overtravel, overtemperature, field excitation, cooling, door interlocks, module status, and up to 2 user-defined external interlocks

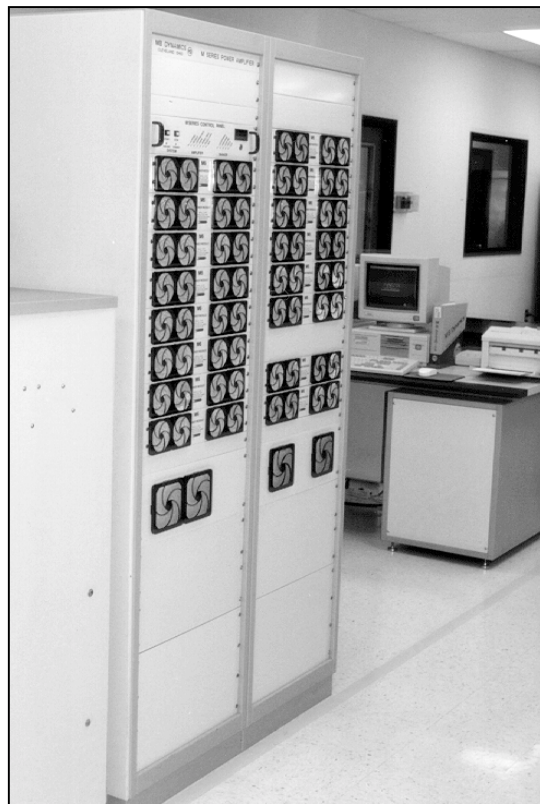
Full Power Output regardless of Load Power Factor

Ideal for electrodynamic applications that produce both leading & lagging power factors based on frequency, shaker parameters, load/test article information

M-Series Amplifiers - *SPECIFICATIONS*

Input Impedance	10K ohms
Output:	
<i>Configuration</i>	Direct or transformer coupled
<i>Power Bandwidth</i>	20-3000 Hz (<i>full power output</i>)
<i>Usable Bandwidth</i>	5-5000 Hz (<i>appropriate to drive vibration exciter</i>)
<i>Power Factor</i>	Not limited
<i>Voltage</i>	* 125 volts RMS at rated power (<i>half bridge</i>) * 250 volts RMS at rated power (<i>full bridge</i>)
Distortion (THD)	1% over power bandwidth into resistive load at full power; less distortion at reduced power levels
Hum & Noise	60 dB below full-rated output (20-10 kHz) input shorted
Heat Dissipated to Atmosphere	<700 BTU/hour per KVA of output power
Cooling	Ambient air 85°F (<i>105°F max w/derating</i>); 90% humidity max

(Subject to change without notice – fax-v 7.99)



**Air-Cooled, Solid State Power Amplifiers
from 6 KVA to 600 KVA**