



"P" Series Power Amplifier

for use with Energizer BLACK and SILVER, PM500HP, and C-Series Shakers

The MB Dynamics "P" Series Power Amplifiers are designed for use with MB's largest permanent magnet vibration exciters and field-coil-based exciters. They drive these exciters to full rated performance over a broad frequency range. All are supplied in a 19" rack-mount cabinet that includes a high fidelity, low-noise power module (designed for and used in medical imaging applications), a modular power supply for the amplifier (and another for the field supply if required), and a power transformer. For Squeak and Rattle Test Systems, a separate Remote Control Unit (RCU) houses the amplifier ON/OFF, DC offset, and GAIN controls as well as status LEDs for up to four exciters in a test system. For such low-noise tests, the RCU is placed in the quiet environment near the exciter while the amplifier cabinet, with its cooling fans, is placed in a less-noise-sensitive location. All required exciter and system interlocks (over-temperature, over-travel, etc.) are provided.



Specifications	PVL	PV	PVX
Frequency Range	DC – 5,000 Hz		DC-3,000 Hz
Line Voltage Required	190 – 500 VAC, 50/60 Hz, Single Phase		380 – 480 VAC, 50/60 Hz, 3 Phase
Input Power Required: amp only, + shaker cooling & field supply	6 kVA 11 kVA	9.5 kVA 12.5 kVA	35 kVA (includes field supply, shaker cooling)
Output kVA Available	5 kVA	7.5 kVA	18 kVA
Amplifier Max. Output Volts	100 Volts RMS	185 Volts RMS	150 Volts RMS
Amplifier Max. Output Current	60 Amps RMS	55 Amps RMS	125 Amps RMS
Power Module Max. Output Volts	300 Volts pk 215 Volts RMS		
Power Module Max. Output Current	140 Amps pk, 70 Amps RMS	200 Amps pk, 100 Amps RMS	400 Amps pk, 125 Amps RMS
Amplifier Protection	Peak Over-current, Modulation Fault, Over/Under Rail Voltage		
Shaker Protection	Over-travel, Over-temperature		Over-travel, Over-temp, Cooling Loss
S/N Ratio	> 90 dB		
THD	< 0.2% @ 200 Hz, 60 A RMS		
Input Impedance	10k		
Dimensions	19" x 26" x 60"H	19" x 26" x 60"H	19" x 26" x 72"H
Weight	300 lbs. (136kg)	400 lbs. (180kg)	800 lbs. (360kg)
CE Mark	Yes		
Instruction Manual	Yes		