

IMV-Smart[™] ECO-Shaker

Air-cooled Vibration Test Systems A22/EM2HAM

A series is the "new standard" in vibration testing, with a solid test performance. A series increases the relative excitation force and has a displacement of 3.0 inp-p*1, which provides a good balance within the specifications for velocity, acceleration and displacement. It also provides a maximum of 138 in/s shock velocity testing, which responds to the demand in lithium battery testing. A series supports rapid creation of tests from a set of pre-defined templates conforming to most international test standards. Simply select the standard required to generate the main test settings. *1) Only for A30, A45, A65, A74

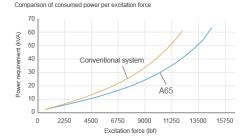
I. Improvement of performance

Expansion of test cases and responses to high spec. tests allow the A series to meet a wide range of testing needs.

- Improvement in excitation force
- · Standard 3.0 inp-p displacement
- · Expansion in frequency range
- High velocity shock test

2. User friendly and secure

Greater security and functionality with improved energy savings.



3. User first principle

Intuitive interface guides the operator for easy use.



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System Specification			Vibration Generato	
Frequency Range (Hz)		0-3,300	Armature Mass (lbs)	
Rated Force	Sine (lbf)	4,940	Armature Diameter (ϕ in)	
	Random (lbf rms) *1	4,940	Armature Resonance (Hz)	
	Shock (lbf)	9,890	Allowance Eccentric Moment (Ibf · ir	
	High Velocity Shock (lbf)	8,090	Mass (lbs)	
Maximum Acc.	Sine (g)	102		
	Random (g rms)	65	Power Amplifier (EM2	
	Shock (g peak)	204	Maximum Output (kVA)	
	High Velocity Shock (g peak)	166	Amplifier Bay	
Maximum Vel.	Sine (in/s)	79	Mass (lbs)	
	Shock (in/s peak)	99	Cooling	
	High Velocity Shock (in/s peak)	138	Mass (lbs)	
Maximum Disp.	Sine (inp-p)	2.0	Cooling Air Flow (cfm)	
	High Velocity Shock (inp-p)	2.5	Environmental [
Maximum Travel (inp-p)		2.5	Input Voltage Supply $(3\phi, V)$	
Maximum Load (lbs)		661	Compressed Air Supply (psi)	
Power Requirements (kVA) *2		30	Working Ambient	Shaker (°F)
Breaker Capacity (A) *3		50	Temperature	Amplifier (°F)
		()		

*2) Power supply: 3-phase 220/480 V, 60 Hz. A transformer is required for other supply voltages.

IMV-Smart[™] **ECO-Shaker**

Vibration Generator (A22)

Power Amplifier (EM2HAM-A22)

Environmental Data

*1) Random force ratings are specified in accordance with ISO5344 conditions. Please contact IMV or your local distributor with specific test requirements.

* For random vibration tests, please set the test definition of the peak value of acceleration waveform to operate at less than the maximum acceleration of

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49 11

2.600

6,200

3,527

24

1

1,235

463

1.060

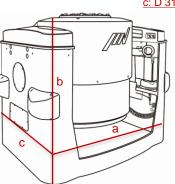
220/480

102

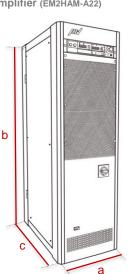
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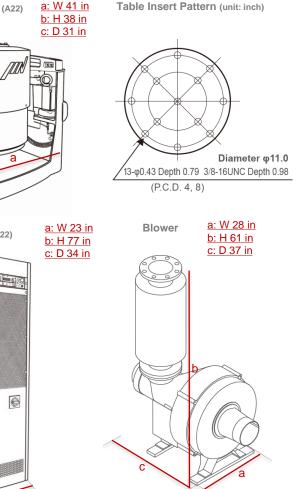
Vibration Generator (A22)



Amplifier (EM2HAM-A22)







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* Frequency range values vary according to sensor and vibration controller. * Armature mass and acceleration may change when chamber is combined.

*3) Breaker capacity for 480 V.

shock.

*4) Above 4,000 Hz, the force rolls-off at a rate of -6 dB/oct.