

Air-cooled Vibration Test Systems

A22/SA2HAM 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 76.2 mmp-p (3 inch stroke) *1 which gives good balance between specification of velocity, acceleration and displacement. It also provides a maximum of 3.5 m/s shock velocity testing, which responds to the demand in lithium battery testing. Rapid creation of a test 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

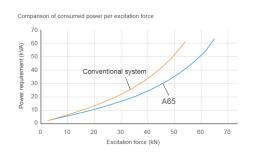
1. Improvement of performance

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 76.2 mmp-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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Table Insert Pattern (unit: mm)

System Specification			
System Model		A22/ SA2HAM	A22/ EM2HAM
Frequency Range (Hz)		0-3,300	0-3,300
	Sine (kN)	22	22
Rated	Random (kN rms) *1	22	22
Force	Shock (kN)	44	44
	High Velocity Shock (kN)*4	-	36
	Sine (m/s²)	1,000	1,000
Maximum	Random (m/s² rms)	630	630
Acc.	Shock (m/s²)	2,000	2,000
	High Velocity Shock (m/s² peak)*4	-	1,636
	Sine (m/s)	2.0	2.0
Maximum Vel.	Shock (m/s peak)	2.5	2.5
	High Velocity Shock (m/s peak)*4	-	3.5
Maximum	Sine (mmp-p)	51	51
Disp.	High Velocity Shock (mmp-p)	-	55
Maximum Travel (mmp-p)		64	64
Maximum Load (kg)		300	300
Power Requirements (kVA)*2		30	30
Breaker Capacity (A) *3		60	60

Vibration Generator (A22)		
Armature Mass (kg)	22	
Armature Diameter (ϕ mm)	280	
Armature Resonance (Hz)	2,800	
Allowance Eccentric Moment (N·in)	700	
Mass (kg)	1,600	

Power Amplifier	SA2HAM- A22	EM2HAM- A22
Maximum Output (kVA)	2	4
Mass (kg)	350	410

Cooling (VAPE/N 560/2R)				
Mass (kg)	150			
Cooling Air Flow (m³/min)		20		
Environmental Data				
Input Voltage Supply (3 ϕ , V)		380/400/415/440		
Compressed Air Supply (Mpa)		0.7		
Working Ambient Temperature	Shaker (°C)	0-40		
	Amplifier (°C)	0-40		

- *1) Random force ratings are specified in accordance with ISO5344 conditions. Please contact IMV or your local distributor with specific test requirements..
- *2) Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.
- *3) Breaker capacity for 480 V.
- *4) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force.
 *5) Measured 150 mm above table at full-field.
- * The specification shows the maximum system performance.
- For long-duration tests, de-rating by up to 70 % must be applied. Continuous use at maximum levels may cause failure.
- * In the case of Random vibration test, please set the test definition of the peak value of acceleration
- waveform to be operated less than the maximum acceleration of Shock. * Frequency range values vary according to sensor and vibration controller.
- * Armature mass and acceleration may change when chamber is combined.

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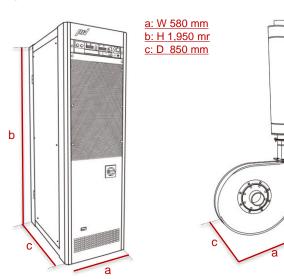
b: H 920 mm c: D 775 mm

a: W 1,038 mm

Diameter $\phi 280$ 17-ф11 Depth20 M10 Depth25 (P.C.D.100,160,250)

Amplifier (SA2HAM-A22/EM2HAM-A22)

Vibration Generator (A22)



Blower

a: W 929 mm b: H 2,175 mm c: D 534 mm