



IMV VIBRATION
TEST SYSTEMS

Aseries

Air-cooled Vibration Test Systems

A22/SA2HAG

A22/EM2HAG



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

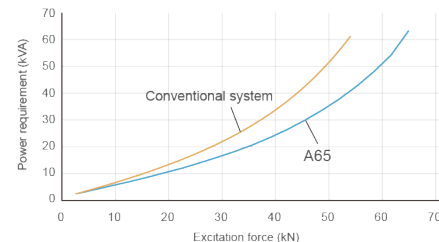
2. User friendly and secure

Greater security and functionality with improved energy savings.

3. User first principle

Intuitive interface guides the operator for easy use.

Comparison of consumed power per excitation force



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System Specification			
System Model		A22/SA2HAG	A22/EM2HAG
Frequency Range (Hz)		0-3,300	0-3,300
Rated Force	Sine (kN)	22	22
	Random (kN rms) *1	22	22
	Shock (kN)	44	44
	High Velocity Shock (kN) *4	-	36
Maximum Acc.	Sine (m/s ²)	1,000	1,000
	Random (m/s ² rms)	630	630
	Shock (m/s ²)	2,000	2,000
	High Velocity Shock (m/s ² peak) *4	-	1,636
Maximum Vel.	Sine (m/s)	2.0	2.0
	Shock (m/s peak)	2.5	2.5
	High Velocity Shock (m/s peak) *4	-	3.5
Maximum Disp.	Sine (mmp-p)	51	51
	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	SA2HAG-A22	EM2HAG-A22
Maximum Output (kVA)	24	
Mass (kg)	350	560

Cooling (VAPE/N 560/2R)		
Mass (kg)	150	
Cooling Air Flow (m ³ /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.

*The specification shows the maximum system performance. For long-duration tests, system must be de-rated up to 70%.

Continuous use at maximum levels may cause failure. Please contact IMV if your system operates at more than 70%.

*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 shock.

*Frequency range values vary according to the sensor and vibration controller.

*Armature mass and acceleration may change when a chamber is added.

Vibration Generator (A22)

a: W 1,038 mm
b: H 955 mm
c: D 775 mm

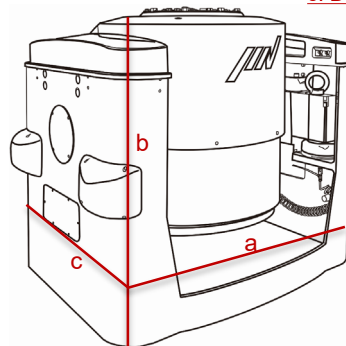
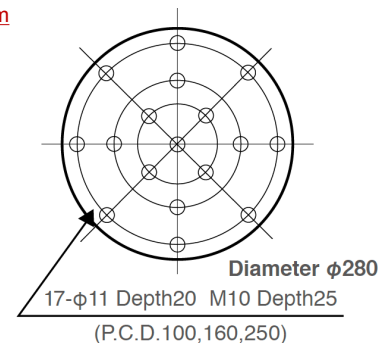
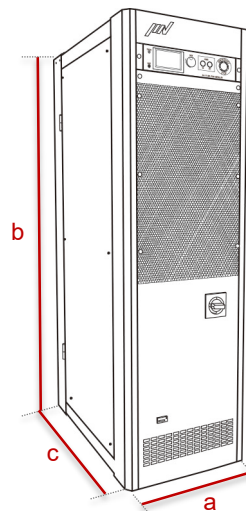


Table Insert Pattern (unit: mm)



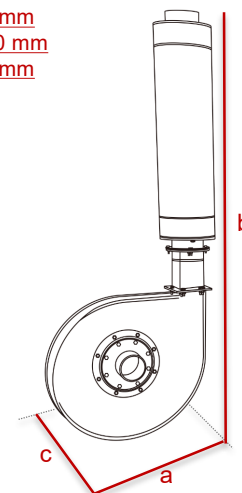
Amplifier (SA2HAG-A22/EM2HAG-A22)

a: W 580 mm
b: H 1,950 mm
c: D 850 mm



Blower

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



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