

Air-cooled Vibration Test Systems

A11/SA1HAG A11/EM1HAG





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

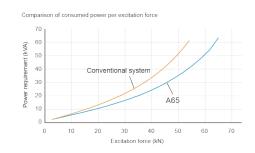
1. Improvement of performance

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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System Specification				
System Model		A11/ SA1HAG	A11/ EM1HAG	
Frequency Range (Hz)		0-4,500 *4	0-4,500 *4	
	Sine (kN)	11	11	
Rated	Random (kN rms) *1	11	11	
Force	Shock (kN)	22	22	
	High Velocity Shock (kN)*5	-	16.5	
	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)*5	-	1,500	
	Sine (m/s)	2.0	2.0	
Maximum Vel.	Shock (m/s peak)	2.5	2.5	
	High Velocity Shock (m/s peak)*5	-	3.5	
Maximum	Sine (mmp-p)	51	51	
Disp.	High Velocity Shock (mmp-p)	-	55	
Maximum Travel (mmp-p)		64	64	
Maximum Load (kg)		200	200	
Power Requirements (kVA)*2		20.4	20.4	
Breaker Capacity (A)*3		40	40	

Vibration Generator (A11)				
Armature Mass (kg)	11			
Armature Diameter (ϕ mm)	210			
Armature Resonance (Hz)	3,160			
Allowance Eccentric Moment (N·in)	294			
Mass (kg)	1,080			

Power Amplifier	SA1HAG- A11	EM1HAG- A11
Maximum Output (kVA)	12	
Mass (kg)	280	470

Cooling (VAPC630/P2R1)						
Mass (kg)	150					
Cooling Air Flow (m ³ /	15					
Environmental Data						
Input Voltage Supply	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 Above 4000 Hz, the force rolls-off at a rate of -6 dB/oct.
- *5 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.

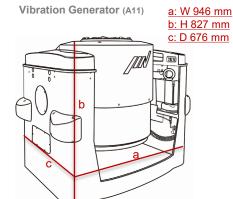
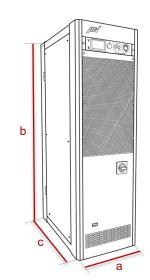


Table Insert Pattern (unit: mm)

Diameter ø210 13-φ11 Depth20 M10 Depth25 (P.C.D.100,160)

Amplifier (SA1HAG-A11/EM1HAG-A11)



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

Blower

a: W 1,023 mm b: H 2,285 mm c: D 531 mm

