

Air-cooled Vibration Test Systems

A30/SA3HAG A30/EM3HAG





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

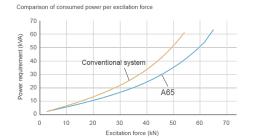
1. Improvement of performance

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		A30/ SA3HAG	A30/ EM3HAG		
Frequency Range (Hz)		0-2,600	0-2,600		
	Sine (kN)	30	30		
Rated Force	Random (kN rms) *1	30	30		
	Shock (kN)	60	60		
	High Velocity Shock (kN)*4	-	50		
Maximum Acc.	Sine (m/s²)	900	900		
	Random (m/s² rms)	630	630		
	Shock (m/s²)	1,818	1,818		
	High Velocity Shock (m/s² peak)*4	-	1,515		
	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)	76.2	76.2		
Disp.	High Velocity Shock (mmp-p)	-	76.2		
Maximum Travel (mmp-p)		82	82		
Maximum Load (kg)		400	400		
Power Requirements (kVA)*2		36	36		
Breaker Capacity (A)*3		75	75		

Vibration Generator (A30)				
Armature Mass (kg)	33			
Armature Diameter (ϕ mm)	290			
Armature Resonance (Hz)	1,980			
Allowance Eccentric Moment (Nm)	850			
Mass (kg)	2,100			

Power Amplifier	1BGH3- A30	2BGH3- A30
Maximum Output (kVA)	31	
Mass (kg)	520	590

Cooling (VAPE/N 630/N2R)				
Mass (kg)		250		
Cooling Air Flow (m ³ /r	54			
Environmental Data				
Input Voltage Supply	Input Voltage Supply (3 ϕ , V)			
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.

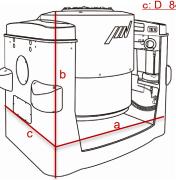
 *The specification shows the maximum system performance. For long-duration tests, system must be de-rated up to 70%.
- Continuous use at maximum levels may cause failure. Please contact IMV if your system operates at more than 70%. *For random vibration tests, please set the test definition of the peak 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.

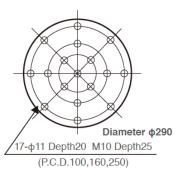


a: W 1,100 mm

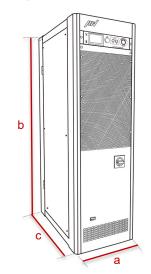
b: H 1,048 mm c: D 840 mm

Table Insert Pattern (unit: mm)

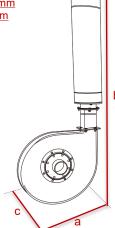




Amplifier (1BGH3-A30/2BGH3-A30)



a: W 580 mm a: W 1,043 mm b: H 1,950 mm b: H 2,335 mm c: D 850 mm c: D 640 mm



Blower

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