

Air-cooled Vibration Test Systems

A65/SA5HAG A65/EM5HAG



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

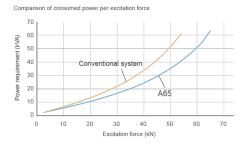
1. Improvement of performance

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.



IMV CORPORATION



Air-cooled	Vibration	Test	Systems					
A65/SA5HAG								
A65/EM	5HAG							



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System Specificat	Vibration Genera	ato			
odel	A65/ SA5HAG	A45/ EM4HAG	Armature Mass (kg)		
Frequency Range (Hz)		0-2 600*4	Armature Diameter (ϕ mm)		
Sine (kN)	65	65	Armature Resonance (Hz) Allowance Eccentric Moment (N•in)		
. ,	65	65			
. ,			Mass (kg)		
	150		-		
High Velocity Shock (KN)	-	120			
Sine (m/s ²)	900	900	Power Amplifier	1B	
Random (m/s ² rms)	630	630	Maximum Output (kVA)		
Shock (m/s ²)	1,806	1,806	Mass (kg)	1	
High Velocity Shock (m/s ² peak)*5	-	1,666			
Sine (m/s)	2.0	2.0			
Shock (m/s peak)	2.5	2.5			
High Velocity Shock (m/s peak)*5	-	3.5			
Sine (mmp-p)	76.2	76.2	<u> </u>		
High Velocity Shock (mmp-p)	-	76.2	Environmental D		
Maximum Travel (mmp-p)		82	Input Voltage Supply $(3\phi, V)$		
(11)			Compressed Air Supply (Mpa)		
Maximum Load (kg)		,	Working Ambient Shaker (°C)		
Power Requirements (kVA)*2		83	Tanan anatuma	Č)	
Breaker Capacity (A)*3		150		,	
	bdel Range (Hz) Sine (kN) Random (kN rms) *1 Shock (kN) High Velocity Shock (kN) *5 Sine (m/s ²) Random (m/s ² rms) Shock (m/s ²) High Velocity Shock (m/s ² peak) *5 Sine (m/s) Shock (m/s peak) High Velocity Shock (mmp-p) High Velocity Shock (mmp-p) Travel (mmp-p) Load (kg) quirements (kVA) *2	SASHAG Sine (KN) 0.2,600'4 Sine (KN) 65 Random (KN rms) *1 65 Shock (kN) 130 High Velocity Shock (kN)'5 - Sine (m/s²) 900 Random (m/s² rms) 630 Shock (m/s²) 1,806 High Velocity Shock (m/s² peak)'5 - Sine (m/s) 2.0 Shock (m/s peak) 2.5 High Velocity Shock (m/s peak)'5 - Sine (m/s) 2.5 High Velocity Shock (m/s peak)'5 - Sine (m/s) 2.5 High Velocity Shock (m/s peak)'5 - Sine (mmp-p) 76.2 High Velocity Shock (mmp-p) - Travel (mmp-p) 82 Load (kg) 1,000 High Velocity (kVA)'2 83	A65/ SASFIAG A45/ EM4HAG r Range (Hz) 0- 2,600'4 0-2,600'4 Sine (kN) 65 65 Random (kN rms) *1 65 65 Random (kN rms) *1 65 65 Shock (kN) 130 130 High Velocity Shock (kN) *5 - 120 Sine (m/s ²) 900 900 Random (m/s ² rms) 630 630 Shock (m/s ²) 1,806 1,806 High Velocity Shock (m/s ² peak)*5 - 1,666 Sine (m/s) 2.0 2.0 Shock (m/s peak) 2.5 2.5 High Velocity Shock (m/s peak)*5 - 3.5 Sine (mmp-p) 76.2 76.2 High Velocity Shock (mmp-p) 82 82 Load (kg) 1,000 1,000	AddSi SASHAGAddSi EMAHAGRange (Hz)0- 2,600'40-2,600'4Sine (kN)6565Random (kN rms) *16565Shock (kN)130130High Velocity Shock (kN)*5-120Sine (m/s²)900900Random (m/s² rms)630630Shock (m/s²)1,8061,806High Velocity Shock (m/s² peak)*5-1,666Sine (m/s)2.02.0Shock (m/s peak)2.52.5High Velocity Shock (mmp-p)76.276.2High Velocity Shock (mmp-p)8282Load (kg)1,0001,000quirements (kVA)*28383	

*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

Cooling (VAPE800/N2R)

Environmental Data

*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 (A65) Vibration Generator (A65) 72 446 1,770 1,550 4,200 1BGH5-2BGH5-68 1.000 1,150

Amplifier

b

1BGH5-A65

a: W 580 mm

b: H 1,950 mm

c: D 850 mm

268

66

380/400/415/440 0.7

0-40

0-40

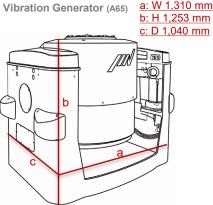
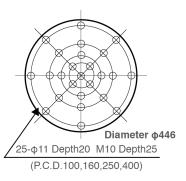
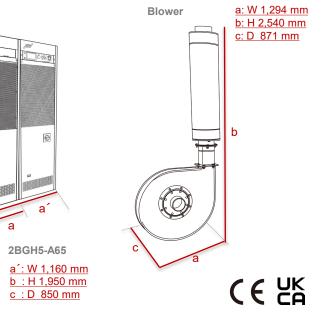


Table Insert Pattern (unit: mm)





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