

## 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

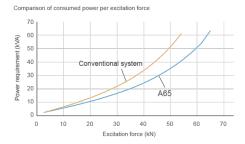
#### 1. Improvement of performance

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							



				_	
System Specificat	Vibration Genera	ato			
odel	A65/ SA5HAG	A45/ EM4HAG	Armature Mass (kg)		
Frequency Range (Hz)		0-2 600*4	Armature Diameter ( $\phi$ 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 <sup>2</sup> )	900	900	Power Amplifier	1B	
Random (m/s <sup>2</sup> rms)	630	630	Maximum Output (kVA)		
Shock (m/s <sup>2</sup> )	1,806	1,806	Mass (kg)	1	
High Velocity Shock (m/s <sup>2</sup> 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 <sup>2</sup> ) Random (m/s <sup>2</sup> rms) Shock (m/s <sup>2</sup> ) High Velocity Shock (m/s <sup>2</sup> 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 <sup>2</sup> ) 900 900   Random (m/s <sup>2</sup> rms) 630 630   Shock (m/s <sup>2</sup> ) 1,806 1,806   High Velocity Shock (m/s <sup>2</sup> 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

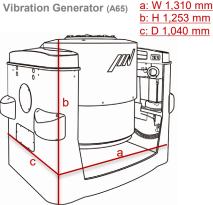
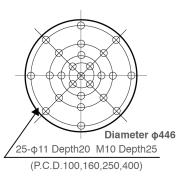
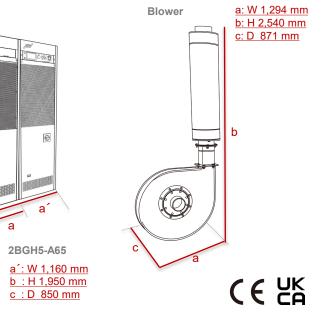


Table Insert Pattern (unit: mm)





### **IMV CORPORATION**