

IMV-Smart[™]

ECO-Shaker

Air-cooled Vibration Test Systems

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 3.0 inp-p*1, which provides a good balance within the specifications for velocity, acceleration and displacement. It also provides a maximum of 138 in/s shock velocity testing, which responds to the demand in lithium battery testing. A series supports rapid creation of tests 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

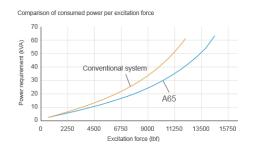
1. Improvement of performance

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 3.0 inp-p displacement
- · Expansion in frequency range
- · High velocity shock test

2. User friendly and security

Greater security and functionality with improved energy savings.



3. User first principle

Intuitive interface guides the operator for easy use.





Air-cooled Vibration Test Systems

A65/EM5HAG



System Specification			
Frequency Range (Hz)		0-2,600*4	
Rated Force	Sine (lbf)	14,620	
	Random (lbf rms) *1	14,620	
	Shock (lbf)	29,240	
	High Velocity Shock (lbf)	27,000	
Maximum Acc.	Sine (g)	92	
	Random (g rms)	65	
	Shock (g peak)	184	
	High Velocity Shock (g peak)	169	
Maximum Vel.	Sine (in/s)	79	
	Shock (in/s peak)	99	
	High Velocity Shock (in/s peak)	138	
Maximum Disp.	Sine (inp-p)	3.0	
	High Velocity Shock (inp-p)	3.0	
Maximum Travel (inp-p)		3.2	
Maximum Load (lbs)		2,205	
Power Requirements (kVA)*2		83	
Breaker Capacity (A) *3		150	

Vibration Generator (A65)		
Armature Mass (lbs)	159	
Armature Diameter (φin)	17.6	
Armature Resonance (Hz)	1,770	
Allowance Eccentric Moment (lbf·in)	13,700	
Mass (lbs)	9,260	

Power Amplifier (EM5HAG-A65)		
Maximum Output (kVA)	68	
Amplifier Bay	2	
Mass (lbs)	2,535	

Cooling				
Mass (lbs)	503			
Cooling Air Flow (cfm	1,766			
Environmental Data				
Input Voltage Supply	220/480			
Compressed Air Supp	102			
Working Ambient Temperature	Shaker (°F)	32-104		
	Amplifier (°F)	32-104		



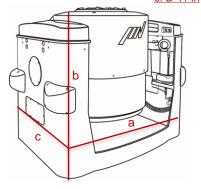
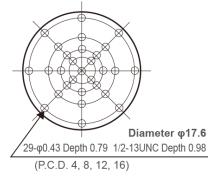
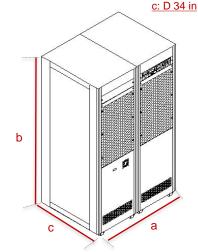


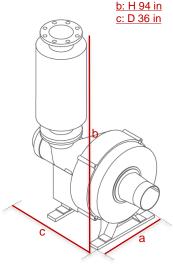
Table Insert Pattern (unit: inch)



a: W 45 in

Amplifier (EM5HAG-A65) a: W 46 in b: H 77 in





Blower

- *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 220/480 V, 60 Hz. A transformer is required for other supply voltages.
- *3) Breaker capacity for 480 V.
- *4) Above 4,000 Hz, the force rolls-off at a rate of -6 dB/oct.
- * 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 sensor and vibration controller.
- * Armature mass and acceleration may change when chamber is combined.