

IMV-Smart[™] ECO-Shaker

Air-cooled Vibration Test Systems A30/EM3HAM



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 gives good balance between specification of 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. 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

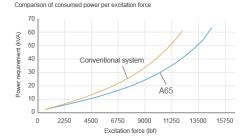
I. Improvement of performance

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 secure

Greater security and functionality with improved energy savings.



3. User first principle

Intuitive interface guides the operator for easy use.



IMV CORPORATION



System Specification			Vibration	
Frequency Range (Hz)		0-2,600	Armature Mass (lbs)	
Rated Force	Sine (lbf)	6,800	Armature Diameter (ϕ in)	
	Random (lbf rms) *1	6,800	Armature Resonance (Hz	
	Shock (lbf)	13,500	Allowance Eccentric Mom	
	High Velocity Shock (lbf)	11,250	Mass (lbs)	
Maximum Acc.	Sine (g)	92		
	Random (g rms)	65	Power Amplit	
	Shock (g peak)	185	Maximum Output (kVA)	
	High Velocity Shock (g peak)	154	Amplifier Bay	
Maximum Vel.	Sine (in/s)	79	Mass (lbs)	
	Shock (in/s peak)	99	C	
	High Velocity Shock (in/s peak)	138	Mass (lbs)	
Maximum Disp.	Sine (inp-p)	3.0	Cooling Air Flow (cfm)	
	High Velocity Shock (inp-p)	3.0	Enviror	
Maximum Travel (inp-p)		3.2	Input Voltage Supply (3 ϕ	
Maximum Load (lbs)		882	Compressed Air Supply (
Power Requirements (kVA) *2		36	Working Ambient Comperature	
Breaker Capacity (A) *3		60		

IMV-Smart [™]
ECO-Shaker

Vibration Generator (A30)

Air-cooled Vibration Test Systems A30/EM3HAM

73

11.4 1,980 7,500 4,409

31

1

1,300

463

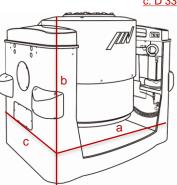
1,060

220/480 102 32-104 32-104

b

A30)

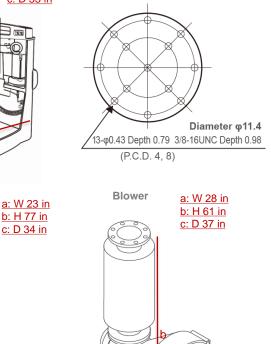
a: W 44 in Vibration Generator (A30)



TON

OO Batha B Batha (C)

Table Insert Pattern (unit: inch)



d e					
	Random (lbf rms) *1	6,800	6,800 Armature Resonance (Hz) 13,500 Allowance Eccentric Moment (lbf•in)		
	Shock (lbf)	13,500			
	High Velocity Shock (lbf)	11,250	Mass (lbs)		
um .	Sine (g)	92	Power Amplifier (EM3HAM- Maximum Output (kVA) Amplifier Bay		
	Random (g rms)	65			
	Shock (g peak)	185			
	Shock (g peak)	100			
	High Velocity Shock (g peak)	154			
um	Sine (in/s)	79	Mass (lbs)		
	Shock (in/s peak)	99	Cooling		
	High Velocity Shock (in/s peak)	138	Mass (lbs)		
um	Sine (inp-p)	3.0	Cooling Air Flow (cfm)		
	High Velocity Shock (inp-p)	3.0	Environmental Data		
m Travel (inp-p)		3.2	Input Voltage Supply $(3\phi, V)$		
m Load (lbs)		882	Compressed Air Supply (psi)		
Requirements (kVA) *2		36	Working Ambient Shaker (°F)		
Capacity (A) *3		60	Temperature Amplifier (°F)		

*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.

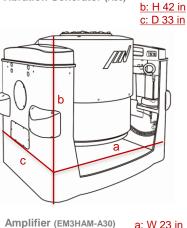
*3) Breaker capacity for 480 V.

*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.



IMV CORPORATION