IMV VIBRATION TEST SYSTEMS series

Air cooled Vibration Test Systems

i250/SA5M EM2502





Max. velocity of Sine force: 2.4m/s • Max. velocity of Shock force 4.6 m/s • Max. displacement: 100mp-p [Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard. [Low noise] Optimised design of the air intake based on fluid dynamics has reduced the air-intake noise. [One of the world's largest class air-cooled systems] Optimized magnetic circuits based on finite element analysis and unique cooling technologies have enabled an excitation force of 65kN with air cooling. [All models can be directly coupled to a climatic chamber.]



1 High durability with PS guide

PS guide (parallel slope guide) is an upper support system conforming to continued vibration testing at high velocity.



■PS guide system

2 Improvement of Testing Environment

With the operation of Intelligence Shaker Management (ISM), EM range can reduce power consumption and CO2 emissions automatically.



3 User first principle

Compatible with K2 vibration controller. Intuitive interface leads The operator with user-friendly guidance.



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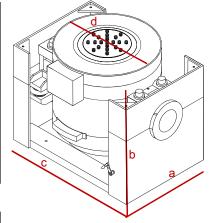


System Specifications					
System Model		i250/SA5M	<i>∂</i> EM2502		
Freq. Range (Hz)		0-2500			
Force	SINE (kN)	40			
	RANDOM (kN rms)	40			
	SHOCK (kN)	80			
Max. Acc.	SINE (m/s ²)	1142			
	RANDOM (m/s² rms)	800			
	SHOCK (m/s ²)	2284			
Max. Vel.	SINE (m/s)	2.2			
	Shock (m/s peak)	2.2*7			
Max. Disp.	SINE (mmp-p)	51			
	MAX. TRAVEL (mmp-p)	68			

Vibration Generator (i250)			
Armature Mass (kg)	35		
Armature Diameter (φmm)	440		
Armature Resonance (Hz)	1900		
Allowance eccentric moment (N.m)	1550		
Maximum Payload (kg)	600		
Mass (kg)	3000		

^{*1)} Power supply: 3-phase 200/220/240/380/400/415/440V, 50/60Hz. A transformer is required for other supply voltages.

Cooling Blower				
Model	VAPE 710/P2R			
Mass (kg)	250			
Environmental Data				
Power Requirement (kVA)		57		
Input voltage supply (3 o	200/220 or 380/400/415/440			
Compressed Air Supply (Mpa)		0.6		
Working Ambient	Temperature (°C)	0 - 40		
	Humidity (%RH)	0 - 85		



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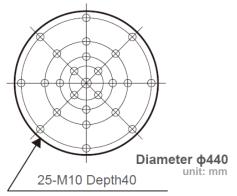
Shaker

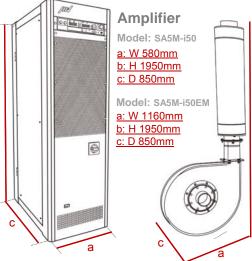
Model: i250

a: W 1463mm b: H 1187mm c: D 1100mm

<u>d: 860φmm</u>

Power Amplifier				
System Model	SA5M-i50	ØSA5M-i50EM		
Max. Output [kVA]	50	50		
Mass [kg]	880	930		





a: W 1160mm b: H2405mm c: D787mm

Blower

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(P.C.D.100,160,250,400) **i250**

^{*2)} Random force ratings are specified in accordance with ISO53 44 conditions.

^{*3)} The specification shows the maximum system performance. For long-duration tests, de-rating by up to 70% must be applied. Continuous use at maximum levels may cause failure.

^{*4)} In the case of Random vibration test, please set the test definition of the peak value of acceleration waveform to be operated less than the maximum acceleration of Shock.

^{*5)} Above 2000 Hz, the force rolls-of f at a rate of -12 dB/oct.

^{*6)} Frequency range values vary according to sensor and vibration controller.

^{*7)} Maximum velocity 4.6m/s. High velocity restricts maximum Shock force. Please contact IMV or your local distributor with specific test requirements.