

Air-cooled Vibration Test Systems

A22/SA2HAG A22/EM2HAG





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

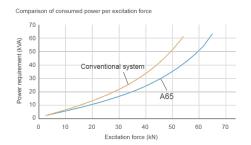
1. Improvement of performance

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.







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| System Specification | | | | |
|----------------------------|-----------------------------------|----------------|----------------|--|
| System Model | | A22/ SA2HAG | A22/ EM2HAG | |
| Frequency Range (Hz) | | 0-3,300 | 0-3,300 | |
| | Sine (kN) | 22 | 22 | |
| Rated | Random (kN rms) *1 | 22 | 22 | |
| Force | Shock (kN) | 44 | 44 | |
| | High Velocity Shock (kN)*4 | - | 36 | |
| | Sine (m/s²) | 1,000 | 1,000 | |
| Maximum | Random (m/s² rms) | 630 | 630 | |
| Acc. | Shock (m/s²) | 2,000 | 2,000 | |
| | High Velocity Shock (m/s² peak)*4 | - | 1,636 | |
| | Sine (m/s) | 2.0 | 2.0 | |
| Maximum Vel. | Shock (m/s peak) | 2.5 | 2.5 | |
| | High Velocity Shock (m/s peak)*4 | - | 3.5 | |
| Maximum Disp. | Sine (mmp-p) | 51 | 51 | |
| | High Velocity Shock (mmp-p) | - | 55 | |
| Maximum Travel (mmp-p) | | 64 | 64 | |
| Maximum Load (kg) | | 300 | 300 | |
| Power Requirements (kVA)*2 | | 30 | 30 | |
| Breaker Capacity (A)*3 | | 60 | 60 | |

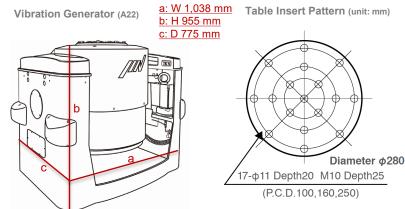
| Vibration Generator (A22) | | | | |
|---------------------------------|-------|--|--|--|
| Armature Mass (kg) | 22 | | | |
| Armature Diameter (ϕ mm) | 280 | | | |
| Armature Resonance (Hz) | 2,800 | | | |
| Allowance Eccentric Moment (Nm) | 700 | | | |
| Mass (kg) | 1,600 | | | |

| | Power Amplifier | 1BGH2- A22 | 2BGH2- |
|---------------|----------------------|---------------|--------|
| 1 | Maximum Output (kVA) | 24 | |
| $\frac{1}{2}$ | Mass (kg) | 350 | 560 |

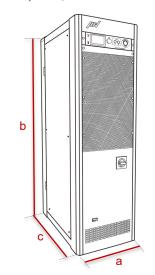
| Cooling (VAPE/N 560/2R) | | | | | |
|-------------------------------------|-----------------------------|-----------------|--|--|--|
| Mass (kg) | 150 | | | | |
| Cooling Air Flow (m ³ /ı | 20 | | | | |
| Environmental Data | | | | | |
| Input Voltage Supply (3 ϕ , V) | | 380/400/415/440 | | | |
| Compressed Air Supp | Compressed Air Supply (Mpa) | | | | |
| Working Ambient Temperature | Shaker (°C) | 0-40 | | | |
| | Amplifier (°C) | 0-40 | | | |

- *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.
- *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.



Amplifier (1BGH2-A22/2BGH2-A22)



a: W 929 mm a: W 580 mm b: H 2,175 mm b: H 1,950 mm c: D 534 mm c: D 850 mm

Blower



^{*}Armature mass and acceleration may change when a chamber is added.