

EDS-300-D402A

Electro-dynamic Vibration Testing System (Air Cooled)

Features

- Double Field Magnetic Circuit Design
- Dedicated foundation-free design by pneumatic isolators, no need to build extra foundation and use the shaker instantly after connectivity
- Latest SiC-FET technique based power amplifier, modularized power module with higher switching frequency range, SNR and more safety
- Smarter remote control on power amplifier thru Ethernet connectivity
- System MTBF > 6,000 Hours
- Operational head expander, slip table, chamber thermal barrier

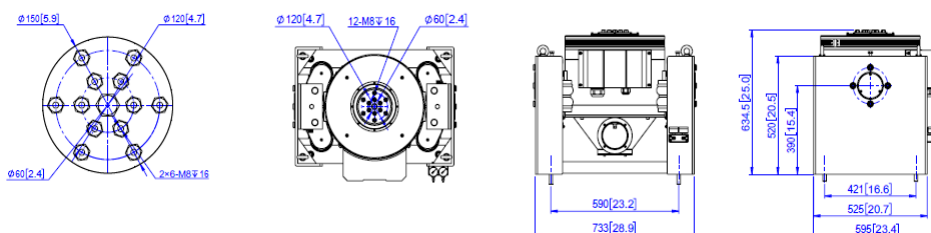


Performances

Shaker Model	EDS-300	
Rated Sine Force	3 kN	
Random Force (rms)	2.1 kN	
Shock Force	6 kN	
Usable Frequency Range	5-4,000 Hz	(1)
Max. Displacement (p-p)	25.4 mm	
Max. Velocity	2.0 m/s	
Max. Acceleration (sine, bare table)	981 m/s ²	
Max. Static Payload	120 kg	
Armature Diameter	150 mm	
Effective Moving Elements Mass	3 kg	
Armature Fundamental Resonance	2,800 Hz	
	(Bare table, ±5%)	
Body Suspension Natural Frequency	<3 Hz	
Overturning Movement	>196 Nm	
Magnetic Flux Leakage	<5 mT	
Load Attachment Points	12xM8	
Armature Insert Pattern	6x60 mm, 6x120 mm	
Dimension (W×D×H, without slip table)	730×595×630 mm	
Weight (without slip table)	520 kg	
System Working Environment		
Temperature	0~40 °C	
Humidity (RH, non-condensing)	10~90%	
Power Supply Requirement	7 kVA, 3-phase 380V/50Hz	
Compressed Air Requirement	0.6 Mpa	

Power Amplifier Model	VSA-D402A	
Amplifier Type	Digital Switching	
Power Module	SiC-FET	
Computer Connectivity	Ethernet+Software	
Rated Power Output	4 kVA	
Max. Output Voltage	120 Vrms	
Max. Output Current	35 Arms	
Switching Frequency	400 kHz	
Signal to Noise Ratio	>70 dB	
Conversion Efficiency	>93%	
Frequency Response	±1.5 dB (5-5,000Hz)	
Harmonic Distortion	<0.8% (5-5,000Hz)	
Interlocks and Protection	voltage, current, travel, temperature cooling, module failure, etc	
Dimension (W×D×H)	480×660×1110 mm	
Weight	145 kg	
Air Blower Model	PBL-W03	
Blower Power	0.75 kW	
Air Flow, Pressure	0.2 m ³ /s, 0.015 kgf/cm ²	
Hose Diameter	120 mm	
Dimension (W×D×H)	518×441×952 mm	
Weight	48 kg	
Accessories (standard)		
Wires/Hose Length	6 m	
Accessories	Center Ruler, Dust Cover, Installation Tools	

Outline Drawing



Notes

- (1) This is sine working frequency defined as per standard ISO 5344. Sine working frequency can start from 2Hz, and Random working frequency can start from 1Hz.
- (2) Magnetic flux leakage 1 mT is available if degaussing coil is equipped.
- (3) Power supply can be customized as per standard of different countries/area.
- (4) Length can be customized as per customer requirement.

Specifications subject to change without prior notice.

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Vibration Testing, Measurement, and Calibration