



SENTEK
DYNAMICS

SENTEK EUROPE S.R.L.
Vibration Test Systems

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L1024M-PA115 - System Datasheet



DESCRIPTION

Air-cooled system ideally suited to testing small-sized electronic parts, connectors, hand-held units and small mechanical assemblies.

- Force 1000 kgf (sine and random)
- Continuous displacement 51 mm (2 in)
- Useable frequency range 5 - 3500 Hz
- Max static payload 200 kg (440 lb)
- Air-cooled amplifier efficiency > 90%
- Air-isolation mounts to eliminate need for seismic floor
- Automatic armature centering
- Degauss coil

OPTIONS AND ACCESSORIES

Sentek Dynamics offers a wide-selection of options and accessories for unique applications and complete turn-key systems.

- Mono-base slip tables in a wide-range of sizes and configurations for maximum over-turning moment and cross-axial restraint
- Thermal barriers for use with environmental test chambers



TECHNICAL INFORMATION L1024M-PA115

System Performance	Metric	Imperial
Sine Force Peak (kgf / N) Lbf	1,000 / 9810	2,200
Random Force rms (kgf / N) Lbf	1,000 / 9810	2,200
Shock Force (6 ms) kgf (lbf/N)	2,000 / 19620	4,400
Useful Frequency Range Hz	5-3500	5-3500
Continuous Displacement pk-pk mm (in)	51	2.0
Shock Displacement pk-pk mm (in)	51	2.0
Max Velocity m/s (in/s)	2	78.7
Max Acceleration Sine Peak m/s ² (g)	980	100

Shaker	MODEL L1024M	
Armature Diameter mm (in)	240	9.456
Armature Material	Mg	Mg
Effective Armature Mass kg (lb)	10	22
Armature Insert Pattern PCD mm (in) plus 1 in center	8-100 / 8-200	8-4 / 8-8
Armature Insert Threads	M10	3/8-16UNC
First Resonant Frequency (bare table) ±5% Hz	3050	3050
Max Static Payload kg (lb)	200	440
Natural Frequency Thrust Axis Hz	< 5	< 5
Stray Flux Density gauss	< 10	< 10
Shaker Weight Uncrated kg (lb)	1150	2.535
Shaker Dimensions Uncrated (W x D x H) mm (in)	884x890x841	34.8x35.0x33.1

Power Amplifier	MODEL PA115	
Number of Sub-modules Supplied	3	3
Rated Power Output kVA	15	15
Rated Output Voltage V rms	90	90
Rated Output Current A rms	140	140
Number of Cabinets	1	1
Dimensions Uncrated (W x D x H) mm (in)	580x850x1800	22.8x33.5x70.8
Amplifier Weight Uncrated kg (lb)	290	638
System Required Power kVA	20	20

Blower Unit	MODEL 500	
Flow rate m ³ /s (ft ³ /s)	0,32	11.3
Standard Air Hose Length m (ft)	4	13.1
Hose Diameter mm (in)	125	4.9
Dimensions (W x D x H) mm (in)	346x745x835	13.6x29.3x32.8
Blower Unit Weight Uncrated kg (lb)	75	165

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