

ES-350-870

System Performance	Metric	American
Rated Sine Force	350 kN	77000 lbf
Rated Random Force	250 kN	55000 lbf
Rated Shock Force	700/1050* kN	154000/236000* lbf
Usable Frequency	DC-1700 Hz	DC-1700 Hz
Maximum Velocity	2/2.5* m/s	78.7/98.4* in/s
Maximum Acceleration	1000 m/s ²	100 g
Maximum Static Payload	6000 kg	13227 lbs
Resonance Frequency	1600±5% Hz	1600±5% Hz
Maximum Displacement p-p	51 mm	2 in

Shaker: ET-350-870

Mass of Moving Elements	300 kg	661 lbs
Armature Diameter	870 mm	34.2 in
Weight	About 23000 kg	About 50706 lbs
Body Suspension Natural Frequency	2.5 Hz	<2.5 Hz
Stray Flux Density	<10 Gauss	<10 Gauss
Dimension L×W×H	2900×2066×1986 mm	114.2×81.3×78.2 in

Power Amplifier: SDA-420

Power	420 kVA	420 kVA
Power Supply Requirement	560 kVA	560 kVA
Dimension L×W×H	6000×1010×2070mm	236.2×39.8×81.5 in
Weight Uncrated	About 6100 kg	About 13448 lbs

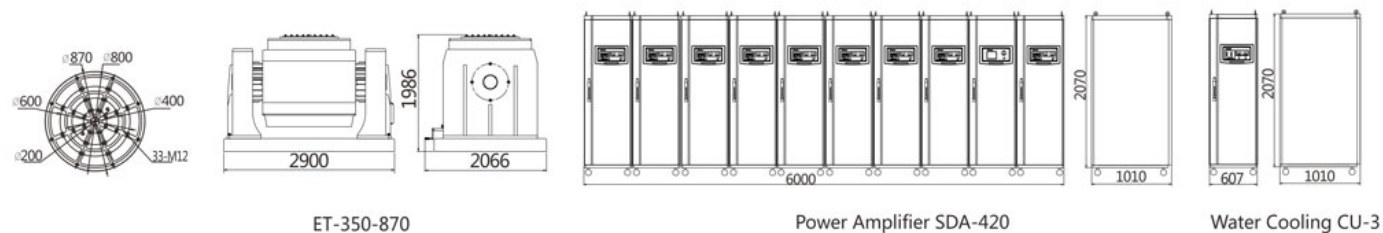
Water Cooling: CU-3

Internal Circle Water Flow (Distilled Water)	120 L/min	26.4 gal/min
Internal Circle Water Pressure (Distilled Water)	1 Mpa	145 psi
External Circle Water Flow (City Water)	320 L/min	70.4 gal/min
External Circle Water Pressure (City Water)	0.25-0.4 Mpa	36-58 psi
Water Pump Power (Internal/External)kW	8/6.5 kW	8/6.5 kW
Distilled Water Requirement	Hardness 30ppm, PH7~8, Conductivity 1Us/cm	
Unit Weight (kg)	About 300 kg	About 661 lbs
Dimension L×W×H	607×1010×2070 mm	23.9×39.8×81.5 in

Options

- Magnesium or Aluminum Armature
- Customized Fixtures (T, L, Cube)
- Combo or Standalone Slip Table
- Pneumatic Isolators or Free Foundation Isolation Base
- Motorized Shaker Body Rotation System
- Air Caster or Glide Rail
- Head Expanders and Vertical Support Platforms
- Cooling tower
- Thermal barrier
- Remote control

Outline Drawing



ET-350-870

Power Amplifier SDA-420

Water Cooling CU-3

Water-cooled Series

Water-cooled Vibration test system features with the large force, large bearing capacity and high cooling efficiency, to complete the tri-axial sinusoidal vibration test, broadband random vibration test and classical (semi-sinusoidal, trapezoidal, and postpeak sawtooth) pulse and shock response spectrum test. The multi-environment combined test can be completed with the equipped climate chamber. At present, this series has a variety of models to choose. The exciting force range is from 50 kN to 500 kN and maximum load is from 800 kg to 10000 kg.

Performance characteristics

- Random to sinusoidal excitation force ratio: 1:1
- Two-times-of-sine shock force (Three times optional)
- Displacement peak-to-peak: 51mm, 76mm or 100mm
- Lightweight armature and large working table
- Better vibration isolation effect of air spring at trunnion position
- Large bearing capacity of air spring in central room, and good low-frequency performance
- Equipped with an automatic centering system, to control the armature is always in the balance position during movement
- Double magnetic circuit design, with low flux leakage and uniform magnetic field

NOTE: In keeping with our commitment to continuous product improvement, the information herein is subject to change.