

**ES-120LS3-550**

System Performance	Metric	American
Rated Sine Force	120 kN	26400 lbf
Rated Random Force	120 kN	26400 lbf
Rated Shock Force	240/360* kN	52800/79200* lbf
Usable Frequency	DC-2500 Hz	DC-2500 Hz
Maximum Velocity	2 m/s	78.7 in/s
Maximum Acceleration	1000 m/s <sup>2</sup>	100 g
Maximum Static Payload	1000 kg	2205 lbs
Resonance Frequency	2100±5% Hz	2100±5% Hz
Maximum Displacement p-p	76 mm	3 in

**Shaker: ET-120LS3-550**

Mass of Moving Elements	90 kg	198 lbs
Armature Diameter	550 mm	21.7 in
Weight	7300 kg	16093 lbs
Body Suspension Natural Frequency	<2.5 Hz	<2.5 Hz
Stray Flux Density	<10 Gauss	<10 Gauss
Dimension L×W×H	1780×1280×1380 mm	70.1×50.4×54.3 in

**Power Amplifier: SDA-120**

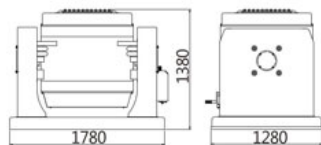
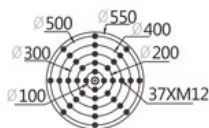
Power	120 kVA	120 kVA
Power Supply Requirement	180 kVA	180 kVA
Dimension L×W×H	1800×1010×2070 mm	70.9×39.8×81.5 in
Weight Uncrated	1900 kg	4189 lbs

**Water Cooling: CU-2**

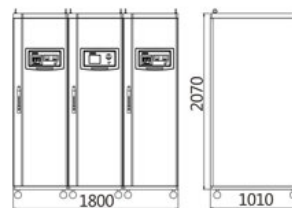
Internal Circle Water Flow (Distilled Water)	80 L/min	17.6 gal/min
Internal Circle Water Pressure (Distilled Water)	1 Mpa	145 psi
External Circle Water Flow (City Water)	160 L/min	35.2 gal/min
External Circle Water Pressure (City Water)	0.25-0.4 Mpa	36-58 psi
Water Pump Power (Internal/External)kW	8/4 kW	8/4 kW
Distilled Water Requirement	Hardness 30ppm, PH7~8, Conductivity 1Us/cm	
Unit Weight ( kg )	300 kg	661 lbs
Dimension L×W×H	607×1010×2070 mm	23.9×39.8×81.5 in

**Options**

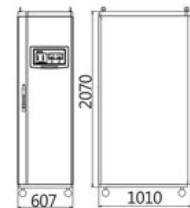
- Magnesium or Aluminum Armature
- Customized Fixtures (T, L, Cube)
- Combo or Standalone Slip Table
- Pneumatic Isolators or Free Foundation Isolation Base
- Motorized Shaker Body Rotation System
- Air Caster or Glide Rail
- Head Expanders and Vertical Support Platforms
- Cooling tower
- Thermal barrier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

**Outline Drawing**

ET-120LS3-550



Power Amplifier SDA-120



Water Cooling CU-2

**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.