

ES-120-550

| 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 | 2/2.5* m/s | 78.7/98.4* in/s |
| Maximum Acceleration | 1000 m/s ² | 100 g |
| Maximum Static Payload | 1000 kg | 2205 lbs |
| Resonance Frequency | 2100±5% Hz | 2100±5% Hz |
| Maximum Displacement p-p | 51/76* mm | 2/3* in |

Shaker: ET-120-550

| | | |
|-----------------------------------|-------------------|-------------------|
| Mass of Moving Elements | 90 kg | 198 lbs |
| Armature Diameter | 550 mm | 21.7 in |
| Weight | About 7000 kg | About 15432 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 | 1800×1010×2070mm | 70.9×39.8×81.5 in |
| Weight Uncrated | About 1900 kg | About 4189 lbs |

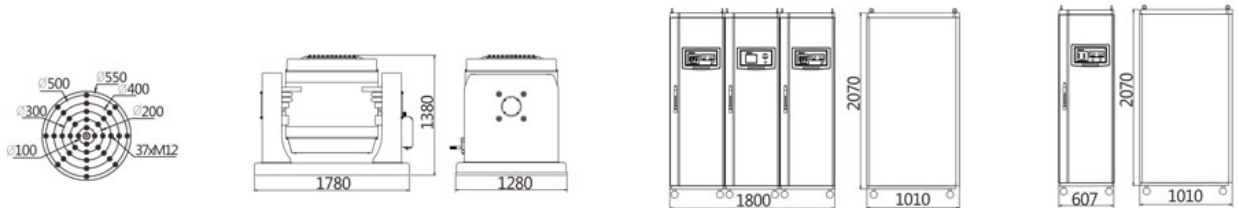
Water Cooling: CU-2

| | | |
|--|--|-------------------|
| 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) | 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-120-550

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.