

ES-100-480

System Performance	Metric	American
Rated Sine	100 kN	22000 lbf
ForceRated Random Force	100 kN	22000 lbf
Rated Shock Force	200/300* kN	44000/66000* 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	1200 kg	2645 lbs
Resonance Frequency	2100±5% Hz	2100±5% Hz
Maximum Displacement p-p	51 mm	2 in

Shaker: ET-100-480

Mass of Moving Elements	80 kg	176 lbs
Armature Diameter	480 mm	19 in
Weight Uncrated	7300 kg	16093 lbs
Body Suspension Natural Frequency	<2.5 Hz	<2.5 Hz
Stray Flux Density	<10 Guass	<10 Guass
Dimension L×W×H	1930×1280×1363 mm	76×50.4×53.7 in

Power Amplifier: SDA-100

Power	100 kVA	100 kVA
Power Supply Requirement	160 kVA	160 kVA
Dimension L×W×H	1770×850×1983 mm	69.7×33.5×78 in
Weight Uncrated	1900 kg	4189 lbs

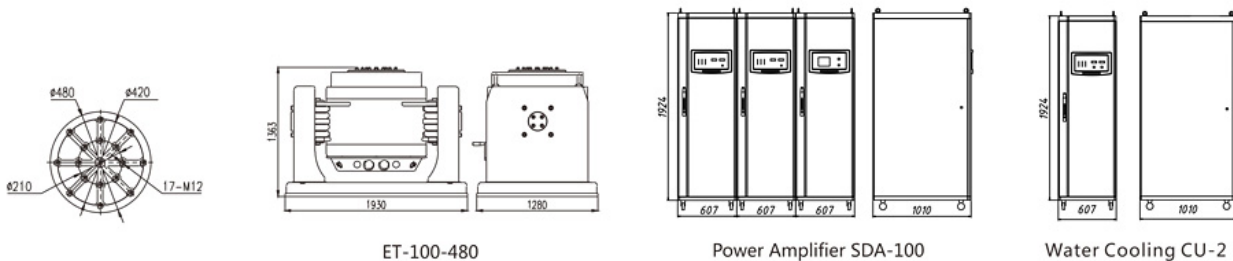
Water Cooling: CU-2

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	610×850×1983 mm	24×33.5×78 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-100-480

Power Amplifier SDA-100

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.