ES-180-650		
System Performance	**Metric**	**American**
Rated Sine	180 kN	39600 lbf
ForceRated Random Force	180 kN	39600 lbf
Rated Shock Force	360/540* kN	79200/118800* lbf
Usable Frequency	DC-2200 Hz	DC-2200 Hz
Maximum Velocity	2/2.5* m/s	78.7/98.4* in/s
Maximum Acceleration	1000 m/s²	100 g
Maximum Static Payload	1800 kg	3968 lbs
Resonance Frequency	1700±5% Hz	1700±5% Hz
Maximum Displacement p-p	51 mm	2 in

Shaker: ET-180-650		
Mass of Moving Elements	150 kg	331 lbs
Armature Diameter	650 mm	26 in
Weight Uncrated	11000 kg	24251 lbs
Body Suspension Natural Frequency	<2.5 Hz	<2.5 Hz
Stray Flux Density	<10 Guass	<10 Guass
Dimension L×W×H	2100×1430×1520 mm	82.7×56.3×59.8 in

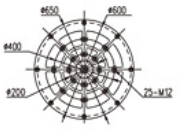
Power Amplifier: SDA-180		
Power	180 kVA	180 kVA
Power Supply Requirement	250 kVA	250 kVA
Dimension L×W×H	2360×850×1983 mm	92.9×33.5×78 in
Weight Uncrated	2600 kg	5732 lbs

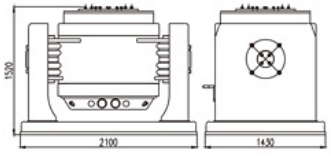
Water Cooling: CU-2		
Internal Circle Water Flow (Distilled Water)	80 L/min	17.6 gal/min
Internal Circle Water Pressure (Distilled Water)	1 Mpa	145 psi
External Circle Water Flow (City Water)	160 L/min	35.2 gal/min
External Circle Water Pressure (City Water)	0.25-0.4 Mpa	36-58 psi
Water Pump Power (Internal/External)kW	8/4 kW	8/4 kW
Distilled Water Requiremnt	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

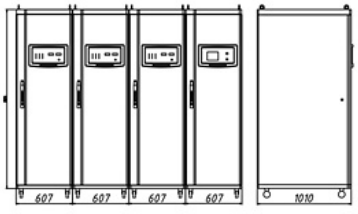
• Magnesium or Aluminum Armature	•Customized Fixtures (T, L, Cube)
• Combo or Standalone Slip Table	•Pneumatic Isolators or Free Foundation Isolation Base
• Motorized Shaker Body Rotation System	•Air Caster or Glide Rail
• Head Expanders and Vertical Support Platforms	•Cooling tower
• Thermal barrier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

Outline Drawing

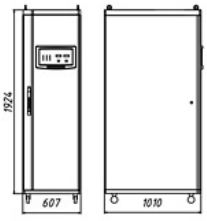




ET-180-650



Power Amplifier SDA-180



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, andgoodlow-frequency performance
- Equipped with an automatic centering system, to controlthe 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.