

### ES-35WLS3-340

System Performance	Metric	American
Rated Sine Force	35kN	7700 lbf
Rated Random Force	35 kN	7700 lbf
Rated Shock Force	70/105* kN	15400/23100* lbf
Usable Frequency	DC-2800 Hz	DC-2500 Hz
Maximum Velocity	2 m/s	78.7 in/s
Maximum Acceleration	1000 m/s <sup>2</sup>	1000 g
Maximum Static Payload	500kg	1100 lbs
Resonance Frequency	2200±5% Hz	2200±5% Hz
Maximum Displacement p-p	76 mm	3 in

### Shaker: ET-50WLS3-445

Mass of Moving Elements	25 kg	55 lbs
Armature Diameter	340 mm	13.4 in
Weight	1700 kg	4332 lbs
Body Suspension Natural Frequency	<2.5 Hz	<2.5 Hz
Stray Flux Density	<10 Gauss	<10 Gauss
Dimension L×W×H	1240×715×1071 mm	48.8×28.1×42.2in

### Power Amplifier: SDA-50

Power	36 kVA	36kVA
Power Supply Requirement	62 kVA	62 kVA
Dimension L×W×H	620×1010×2070 mm	24.4×39.8×81.5 in
Weight Uncrated	500 kg	2202lbs

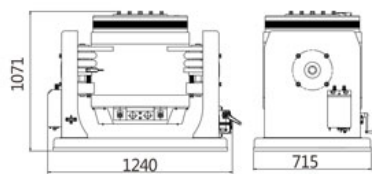
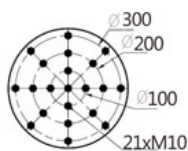
### Water Cooling: CU-1

Internal Circle Water Flow (Distilled Water)	40 L/min	8.8 gal/min
Internal Circle Water Pressure (Distilled Water)	1 Mpa	145 psi
External Circle Water Flow (City Water)	100 L/min	22 gal/min
External Circle Water Pressure (City Water)	0.25-0.4 Mpa	36-58 psi
Water Pump Power (Internal/External)kW	4/2.5 kW	4/2.5 kW
Distilled Water Requirement	Hardness 30ppm, PH7~8, Conductivity 1Us/cm	
Unit Weight ( kg )	250 kg	About 551 lbs
Dimension L×W×H	607×1010×2070 mm	23.9×39.8×81.5 in

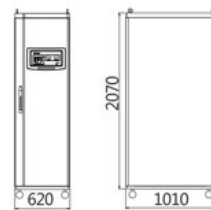
### Options

- 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

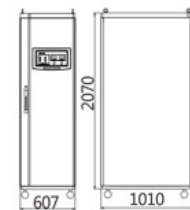
### Outline Drawing



ET-50W-445



Power Amplifier SDA-50



Water Cooling CU-1

### 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.