### LW127.141-225 Vibration System



The LW-127-225 system is used when the test article size makes the ET-127 shaker the correct choice but test requirements do not demand the full rated shaker performance available from the LW-127-500 system.

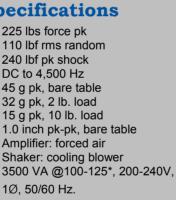
### **General Specifications**

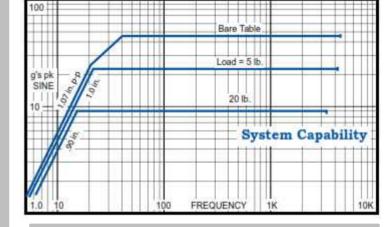
Sine Force: **Random Force: Shock Force: Frequency Range:** Max. Acceleration:

Max. Displacement: **Cooling:** 

**Power Requirements:** 

\*Consult factory for low line voltage operation.







Standard trunnion allows shaker operation in any position. from vertical to horizontal. The PA-141 amplifier features switched 115 Vac power.

### System Components\*

- ET-127 Electrodynamic Shaker PA-141 Linear Power Amplifier
- FS-127 Integrated Field Supply
- CB-127 Cooling Blower
- Interconnect Cables and Hoses

### System Options\*

- VL-144 2 Ch. Sine, Random and Shock Controller
- VL-145 1 Ch. Digital Controller
- SC-121 Sine Servo Controller
- HE-127 Head Expander
- AI-127 Pneumatic Base Isolation Kit
- Rack Cabinet
- Accelerometer Package
- \*See individual components for more detailed specifications and options.

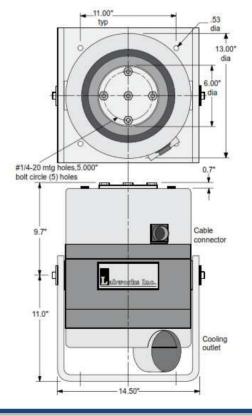
# ET-127 Electrodynamic Shaker



- **500 pounds pk sine force**
- 1.0 inch stroke
- **6.0 inch diameter table**
- Unsupported Payloads up to 50 lbs
- Low stray magnetic field
- Frequency range DC-4,500 Hz
- Trunnion mounting base

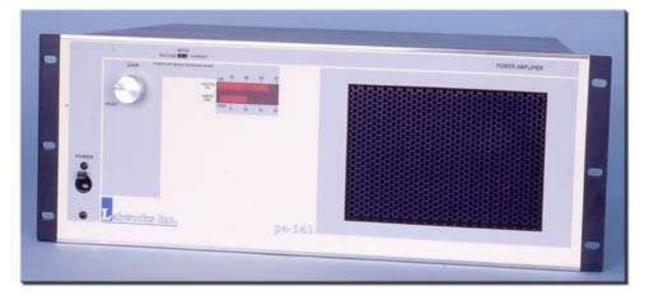
The ET-127 Electrodynamic Transducer is well suited for testing mechanical assemblies, packaging and printed circuit boards, as well as modal applications. The shaker incorporates the latest high-tech composite materials and features a revolutionary "side load" restraint design in the armature suspension and guidance system. A host of "big shaker" options allow the ET-127 to be easily adapted to specific testing applications.

### **General Specifications**1 Performance Sine force 500 lbf pk Random force 350 lbf rms Shock force 1000 lbf pk Max displacement Continuous pk-pk 1.0 in Between stops 1.2 in Physical Armature weight 5.0 lb Suspension stiffness 250 lb/in 21" H x 14.5" W x 14" D Dimensions 475 lbs Shaker weight **Options** AI-127 (5 Hz) & SI-127 (10 Hz) Vibration Isolation Mounts. LS-127 Pneumatic Payload Support. DB-127 DuoBase Horizontal/Vertical Table. TA-127 Thermal Chamber Interface. M6 x 1 Metric Inserts. Head Plates and Fixtures Please see systems ratings for additional specifications. Load dependent. Specifications subject to change.



싸이러스㈜/031-251-1905

# PA-141 Linear Power Amplifier



- **Output:** 50V, 1000 VA
- Direct coupled linear output
- Voltage and current source mode
- **External interlock circuitry**
- Optional shaker field supplies

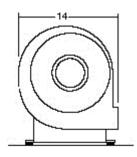
The Labworks PA-141 Linear Power Amplifier has two operational modes. The amplifier can be used as either a wide-band, highly damped voltage source, or as a high impedance current source. Optional, internal DC field power supplies can be supplied for use with Labworks ET-140 and ET-127 Shakers. These options provide the convenience of a single chassis, as well as fully integrated power-up and cooling interlocks.

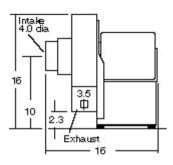
|         |              |        |                   | PA-141 |
|---------|--------------|--------|-------------------|--------|
| 60      | 80           | 4Ω     | Output Capability |        |
| 40 —    | V            |        | -                 | 2Ω     |
| Volts / | $1 \swarrow$ |        | /                 |        |
| 20      |              |        |                   | - 1Ω   |
| 1/      |              | Amps   | /                 | -      |
|         |              | 10 rms | /                 | 20     |



### **General Specifications**\*

| Output voltage<br>Output current<br>Max. cont. dissipation<br>Frequency response   | 50 V rms<br>20 A rms<br>900 W  |
|--|--|
| DC input: DC to 10 KHz<br>AC input: 1.0 to 10 KHz<br>Max. voltage gain<br>Cooling  | 6 dB<br>6 dB<br>36 dB<br>2-speed fan, automatic<br>10 kΩ   |
| Input impedance<br>Volts, pk   | 19 segment $\pm$ 5 %   |
| Amps, rms  | 19 segment ± 5 %   |
| Interlock circuit<br>External, user<br>Shaker, internal, optional<br>Optional field power<br>Input power<br>Voltage<br>Frequency<br>Dimensions<br>Weight<br>*Specifications subject to change. Cal | F.O. switch or TTL<br>cooling<br>1000 W max<br>2000 VA (3000 w/field)<br>208 or 230 Vac, 1Ø<br>48 to 62 Hz<br>7" H x 19" W x 17" D<br>48 lbs |





## **CB-127** Cooling Vacuum



### **General Specifications**

Blower Type: Flow @ Pressure: Motor: **Power:** 

Intake: Hose Length: Pressure Drop: Maximum allowable combined ducting pressure drop with ET-127

Suction 200 cfm @ 4" H 1/3 Hp 115 Vac, 60 Hz

4" dia. (5" dia. w/o adapter) 12.5', flexible vacuum, std

1" H2O@200 cfm