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# Labsphere - Lamp Power Supplies

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## LPS-045-H, LPS-200-H
## Halogen Lamp Power Supplies



The LPS-045-H and LPS-200-H Lamp Power Supplies provide a precision regulated DC constant current source for the optimum operation of halogen filament lamps. The LPS-045-H and the LPS-200-H Lamp Power Supplies serve the lamps indicated on the specifications chart below. These halogen lamp power supplies provide highly accurate currents (±0.1% ±2.0 mA of set value) for lamp standard measurements. The user sets the desired current or Labsphere light source using the keys on the front panel. The power supply slowly ramps up to the desired setting (ramp-up time is approximately 2 minutes). This ramp-up circuit prevents the high transient currents associated with filament lamps which shorten their lifetime. Increased lifetime in lamps is important for maintaining useful calibrations over long periods of time. The lamp power supplies are operated from 110-120/220-240 VAC; 50/60 Hz and will maintain their output accuracy over a range of ±10% in line voltage fluctuations. The front panel functions include four control buttons (power, start, stop, option) used for powering up the instrument and starting and stopping the current flow to the lamp. The option key includes the following features: select current value or Labsphere light source and rear panel remote or local sensing of voltage. Up and down scroll keys are used for setting the current precisely. The start and stop functions may also be controlled through the SC-5500 Integrating Sphere System Control. Two rows of backlit LCD digital readouts show the user preset current, the actual current being delivered to the lamp, and the operation time. Connections for the output current are made through the rear panel with a heavy duty two-pin connector. A cable is provided with a standard connector.**SPECIFICATIONS AND ORDERING INFORMATION**

| PART NUMBER | LPS-045-H | LPS-200-H |
|---|---|---|
| Output Ratings (max): | 45 watts | 200 watts |
| Output Current Accuracy: | ±0.1% ±2.0 mA of set value | ±0.1% ±2.0 mA of set value |
| Ramp-Up Time: | 2 minutes | 2 minutes |

| | | |
|---|---|---|
| Power Requirements: | 110-120/220-240 VAC; 50/60 Hz | 110-120/220-240 VAC; 50/60 Hz |
| Dimensions (inches): | 16.7 W x 16 D x 5.2 H | 16.7 W x 16 D x 5.2 H |
| Weight: | 12 lbs (5.45 kg) | 17 lbs (7.72 kg) |
| Compatible Lamps and Light Sources: | 6, 10, 20, 30 and 45 watt | 6, 10, 20, 30, 45, 75, 80, 120, 125, and 150 watt |



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