

# Low Voltage Power Supplies

Educational Training Equipment for the 21st Century

Bulletin 416-1D

## Hampden BPS-12 and BPS-16 AC/DC Power Supplies

### General

Hampden, the nation's leading manufacturer of laboratory distribution systems and AC/DC variable voltage power supplies, has a most complete line of regulated and non-regulated rectifier power supplies.

For all your power requirement needs and special applications contact:

Hampden Engineering Corporation,  
East Longmeadow, Massachusetts

### Purpose

The following low current, low voltage units are designed for applications where a limited amount of power is desired (i.e., in Science Laboratories). Basically, these units are most applicable to the middle school.

### Description

Input power of 120V, 60Hz is supplied through a 3-wire, #16 rubber covered cord. Units are energized by means of a keyed switch with associated pilot light. Both supplies are isolated, and, unless otherwise specified, terminate to Hampden high quality, tamper proof, captive head, 5-way binding posts, while the fixed and variable 120V AC outputs terminate to a standard grounding type duplex receptacle. Variable outputs are protected by thermal magnetic circuit breakers.

Each unit is supplied with a set of two (one red, one black) Hampden PC-3 cords, 3 ft. long, having a stacking banana plug on one end and a hooded alligator clip on the other. All units are guaranteed against electrical and mechanical defects for one year from date of acceptance. The **MODELS BPS-16P** and **BPS-16F** are listed by Underwriters' Laboratories, Inc.

Each power supply is provided as either a portable (specify -P) or flush-mounted (specify -F) unit.

### Portable Features

Designed for use at any convenient location around the lab.

- Power Cord, 5 ft.
- Rubber Feet
- Carrying Handles

### Flush Features

Designed for mounting in the rail of a laboratory table.

- Large gridded openings are provided for continuous cooling
- Power Cord, 2ft.

### Specifications

Hampden **MODEL BPS-12P** or **BPS-12F** provides the following services:

- 0–12V DC, 2 Amps, 10% ripple
- 0–12V AC, 2 Amp
- 0–120V AC, 1 Amps
- 120V AC, 10 Amps

Hampden **MODEL BPS-16P** or **BPS-16F** provides the following services:

- 0–16V DC, 2 Amps (1% RMS)
- 0–22V AC, 2 Amps
- 0–120V AC, 1.5 Amps
- 120V AC, 10 Amps



**MODEL BPS-16P**

Dimensions: 7¼"W x 6¾"H x 6¼"D  
Shipping Weight: 15 lbs.



Locking Cover Shown  
**BPS-LC-36/18** for **BPS-36/18-F**  
**BPS-LC-12/16** for **BPS-12** and **16F**



**MODEL BPS-12F**

Dimensions: Panel – 8¾"W x 4"H x 7½"D  
Cutout – 7½" x 3⅝"  
Shipping Weight: 15 lbs.



**MODEL BPS-12P**

Dimensions: 7¼"W x 6¾"H x 6¼"D  
Shipping Weight: 15 lbs.



**MODEL BPS-16F**

Dimensions: Panel – 8¾"W x 4"H x 7½"D  
Cutout – 7½" x 3⅝"  
Shipping Weight: 15 lbs.

All Hampden units are available for operation at any voltage or frequency

**Hampden**  
ENGINEERING CORPORATION