

POWER SUPPLIES



Hampden[®]
ENGINEERING CORPORATION



All Hampden Units are Guaranteed Against Electrical and Mechanical Defects for One Year

Hampden Engineering offers a complete line of regulated and non-regulated rectifier power supplies. Power Units complement Linear Switch Panels in Physics and Science laboratories when additional sources of variable voltage are required on a temporary basis. In smaller laboratories, these units may provide adequate power for special project work. A wide variety of models offer fixed or portable housing, metered outputs, and regulated DC. Hampden variable voltage units are circuit-breaker protected, and the models on this page are listed by *Underwriters Laboratories, Inc.* Hampden power supplies can be ordered as portable (specify -P) for use at any convenient location around the lab or flush (specify -F) which are designed for mounting in the rail of a laboratory table. Some are equipped with a switch key, a pair of test leads, and a 3-wire power cord that plugs into standard grounding type outlet.

Choose from any of these six Hampden Power Supply Models which are Listed by

Underwriters Laboratories, Inc.

Low Voltage Power Supplies

BPS-12 & BPS-16



Dimensions:
BPS-16P -
6 3/4"H x 7 1/4"W x 6 1/4"D
Shipping Weight: 15 lbs

BPS-16F -
Panel: 4"H x 8 3/4"W x 7 1/2"D
Cutout: 3 5/8" x 7 1/2"
Shipping Weight: 15 lbs

Dimensions:
BPS-12P - 6 3/4"H x 7 1/4"W x 6 1/4"D
Shipping Weight: 15 lbs

BPS-12F - Panel: 4"H x 8 3/4"W x 7 1/2"D
Cutout: 3 5/8" x 7 1/2"
Shipping Weight: 15 lbs



Hampden **Models BPS-12** and **BPS-16** AC/DC Power Supplies are low-current, low-voltage units designed for applications where a limited amount of power is desired, such as Middle School Science Laboratories.

BPS-30P



Dimensions:
BPS-30P
7-5/8"H x 11"W x 11"D
Shipping Weight: 50 lbs

Hampden **Model BPS-30P** AC/DC Portable Power Supply is designed for use in Science Laboratories where a source of variable DC voltage (up to 30 volts at 10 amperes) is required, as well as variable AC voltage. Built in voltmeters provide a continuous indication of output voltage. Input power of 120V, 60Hz is supplied through a 3-wire, #16 rubber covered cord. Units are energized by means of a switch with associated pilot light. All low voltage supplies are isolated. Variable outputs are protected by thermal magnetic circuit breakers.

CPS-1810 & CPS-2050A



Dimensions:
CPS-1810P -
7"H x 10"W x 14"D
Shipping Weight: 35 lbs
CPS-1810F -
Panel 5 1/2"H x 13"W x 9"D
Cutout 5 1/8" x 12 1/4"
Shipping Weight: 35 lbs

Dimensions:
CPS-2050A-P -
10"W x 7"H x 14"D
Shipping Weight: 35 lbs
CPS-2050A-F -
Panel: 5 1/2"H x 13"W x 9"D
Cut-out: 5 1/8" x 12 1/4"
Shipping Weight: 35 lbs



Hampden **Models CPS-1810** and **CPS-2050A** AC/DC Power Supplies are designed for use where a high quality unit with excellent filtering and voltage characteristics is required. The low voltage outputs of the CPS-1810 terminate at Hampden heavy-duty five-way binding posts and the CPS-2050A include HR-1S socket receptacles.

BPS-36/18P & BPS-36/18F



Dimensions:
BPS-36/18P -
7 5/8"H x 11"W x 11"D
Shipping Weight: 35 lbs

BPS-36/18F -
Panel: 5 1/2"H x 13"W x 8 1/2"D
Cutout: 5 1/8" x 12 1/4"
Shipping Weight: 35 lbs

Hampden **Models BPS-36/18P** (portable) and **BPS-36/18F** (flush) Power Supplies are designed for use in Science Laboratories where a source of variable DC voltage (up to 36 volts at 5 amperes) is required, as well as up to 10 amperes at lower voltages. A built-in voltmeter provides a continuous indication of output voltage. Each unit is supplied with a set of two (one red, one black) Hampden PC-3 cords, 3' long with a stacking banana plug on one end and a hooded alligator clip on the other end.

Electrical Characteristics

Models BPS-12P and **BPS-12F** provide the following services:

- 0-12V DC, 2A 10% ripple
- 0-120V AC, 1A
- 0-12V AC, 2A
- 120V AC, 10A

Models BPS-16P and **BPS-16F** provide the following services:

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

Models BPS-36/18P and **BPS-36/18F** provide the following services:

- 0-36V DC, 5A (1% RMS)
- 0-18V DC, 10A (2% RMS)
- 0-45V AC, 5A
- 0-22V AC, 10A
- 0-120V AC, 3.5A
- 120V AC, 10A
- Regulation: 4V NL-FL (either range)

Models CPS-1810P and **CPS-1810F** provide the following services:

- Range: 0-16V DC, 10A
- Ripple: 0.12V
- Regulation: 0.3V per ampere load
- 0-22V AC, 10A isolated
- 0-120V AC, 2.25 (grounded)
- Fixed 120V AC, 10A

Overload protection: Fixed and variable supplies individually protected by thermo-magnetic circuit breakers.

Models CPS-2050A-P and **CPS-2050A-F** provide the following services:

- Range: 0-20V DC
- 0-5A DC
- Ripple: 10mV RMS
- Regulation: 10mV (NL-FL)
- 10mV (105-125V AC)
- 15mA (0-95% set voltage)
- Overload protection: Maintains constant current output (at set value), even with short circuit.

Model BPS-30P provides the following services:

- 0-30V DC, 10A
- 0-40V AC, 10A
- 0-120V AC, 2.5A
- Regulation: 4V NL-FL (either range)

POWER SUPPLIES



*Contact us for All Your Power Requirement Needs
and Special Applications*

HBT-460D-P



MODEL HBT-460D-P Digital Multimeter in Portable Case
Dimensions: 7"H x 9½"W x 7½"D or
6¾"H x 18¾"W x 5"D (Flush HBT-460D)
7½"H x 9¾"W x 9"D (Portable HBT-460D-P)
Shipping Weight: 10 lbs.

Hampden **Model HBT-460D** Digital Multimeter provides students with a high quality, high impedance fully protected instrument for the measurement of voltage, current and resistance. It includes one set of test leads and instruction manual and is available as a flush model (**HBT-460D**) or portable (**HBT-460D-P**).

HBT-UVR-2-25-2



MODEL HBT-UVR-2-25-2 Dual Power Supply
Dimensions: 7"H x 19"W x 8¼"D
Shipping Weight (less housing): 40 lbs.

Hampden **Model HBT-UVR-2-25-2** is a dual output, well regulated DC power supply for use in school electronics labs. Its voltage and current ranges are ideal for experiments involving solid-state components and integrated circuits. This unit contains two independent power supplies that are adjustable from 0 to 25 volts DC and from 0 to 2 amps, and may be used independently or interconnected. Each supply has its own meters to monitor voltage and current. The **HBT-UVR-2-25-2** is housed in a standard Hampden Turret, single or double faced, low-profile or elevated.

HBT-473-B



MODEL HBT-473-B AC/DC Power Supply
Dimensions: 7"H x 19"W x 8¼"D
Shipping Weight: 35 lbs.

Hampden **Model HBT-473-B** supplies variable AC and DC power to electronics laboratories work stations for the performance of educational experiments, particularly those involving transistors and other solid state devices. It contains two AC supplies, one a fixed 6.3 volt, and the other a dual-range variable supply, plus two independently variable DC supplies, one of which has an adjustable current limit. The **Model HBT-473-B** may be enclosed in the **Model HBT-450** Turret or in a portable housing. It can also be configured on a 6¾"H x 18¾"W panel for mounting in Hampden Elevated or Low-profile Turrets.



Hampden is committed to providing industry-leading technology.

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