POWER SUPPLIES



















POWER SUPPLIES

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 circuitbreaker 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: RPS-16P

63/4"H x 71/4"W x 61/4" D Shipping Weight: 15 lbs

Panel: 4"H x 83/4"W x 71/2"D Cutout: 35/8" x 71/2" Shipping Weight: 15 lbs

BPS-12P - 63/4"H x 71/4"W x 61/4" D Shipping Weight: 15 lbs

BPS-12F - Panel: 4"H x 8¾"W x 7½"D Cutout: 35/8" x 71/2" 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



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



CPS-1810P -7"H x 10"W x 14"D Shipping Weight: 35 lbs CPS-1810F

Panel 51/2"H x 13"W x 9"D Cutout 51/8" x 121/2" Shipping Weight: 35 lbs

CPS-2050A-P 10"W x 7"H x 14"D Shipping Weight: 35 lbs CPS-2050A-F -Panel: $5\frac{1}{2}$ "H x 13"W x 9"D Cut-out: 51/8" x 121/4" 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



BPS-36/18P 75/8"H x 11"W x 11"D Shipping Weight: 35 lbs

BPS-36/18F -

Panel: 51/2"H x 13"W x 81/2"D Cutout: 51/8" x 121/4" 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



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 81/4"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 81/4"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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