

CPS-1810 and CPS-2050A 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 Hampden **MODEL CPS-1810** and **MODEL CPS-2050A** Power Supplies are designed for use where a high quality unit with excellent filtering and voltage characteristics are required.

Physical Characteristics

The Hampden Power Supplies are available as both portable (specify -P) and flush-mounting (specify -F) units. The units are housed in code gauge steel enclosures, finished in baked enamel. Legends are clearly silk screened on the front panel in black enamel. The low voltage outputs terminate at Hampden heavy-duty five-way binding posts. Units are furnished complete with a pair (red and black) of cords having pin plugs on one end and hooded alligator clips on the other end. The **MODELS CPS-1810P** and **CPS-1810F** are listed by Underwriters' Laboratories, Inc.

Portable Features

Designed for use at any convenient location around the lab.

- Power Cord, 5ft
- Rubber Feet
- Carrying Handle

Flush Features

Designed for mounting in the rail of a laboratory table.

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

Electrical Characteristics

Input:

120V AC, 60Hz, single-phase via 3-conductor cord, 5ft. long (2ft. long on flush mounting units)

Monitoring:

Pilot light indicates availability of power. Both voltage and current of the variable supply are measured on 2% accurate meters.

Outputs (CPS-1810):

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.

Outputs (CPS-2050A):

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 CPS-4025A rated 0-40V DC at 2.5A is also available.



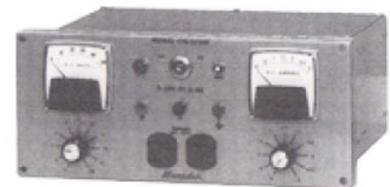
MODEL CPS-1810P
Dimensions: 7"H x 10"W x 14"D
Shipping Weight: 35 lbs.



MODEL CPS-1810F
Dimensions: (panel) 5-1/2" x 13"W x 9"D
(cut-out) 5-1/8"H x 12-1/2"W
Shipping Weight: 35 lbs.



MODEL CPS-2050A-P
Dimensions: 7"H x 10"W x 14"D
Shipping Weight: 35 lbs.



MODEL CPS-2050A-F
Dimensions: (panel) 5-1/2"H x 13"W x 9"D
Shipping Weight: 35 lbs.



MODEL CPS-1810D-P (with digital meters)
Dimensions: 6"H x 16"W x 8"D
Shipping Weight: 35 lbs.

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

Hampden
ENGINEERING CORPORATION