

MODEL 2005



POWER DESIGNS

PRECISION DC POWER SOURCE



ELECTRICAL SPECIFICATIONS

OUTPUT - 0 to 20 VDC, continuously adjustable, at 0 to 500 MA.

INPUT - 105 to 125 V, 50 to 440 Hz, 40 W max. (including oven heater).

CALIBRATION AND ACCURACY - Two dual, concentric, decade switches provide dial readout to four places with an accuracy of $0.1\% \pm 1$ MV at outputs below 10 V. A 1-MV range, single-turn potentiometer permits interpolation of the last place. This potentiometer has a resolution of 10 μ V. A toggle switch extends the range of the dial readout from 10 to 20 V, without affecting resolution or accuracy (five-place readout). An illuminated indicator identifies the range in operation.

REGULATION - Output voltage change less than 100 μ V (at sense connection points) for line or load variations over the operating range.

RIPPLE AND NOISE - Less than 100 μ V peak-to-peak.

SOURCE IMPEDANCE - Less than 0.2 milliohm at DC, 0.04 ohm at 20 KHz, 0.5 ohm at 1 MHz.

RECOVERY TIME - Less than 10 μ s to return to within 250 μ V or 0.005% (whichever is greater) of the set voltage for a 10% to 100% step change in rated load; less than 40 μ s to return with 100 μ V.

OPERATING TEMPERATURE RANGE - 15 to 4 °C ambient; 0 to 60 °C ambient with reduced accuracy.

TEMPERATURE COEFFICIENT - DC output voltage change less than 0.001% or 50 μ V (whichever is greater) per °C over the range of + 15 to +45 °C; less than 0.002% or 100 μ V (whichever is greater) per °C from 0 to + 15 °C and +45 to +60 °C.

STABILITY - Better than 0.001% + 100 MV/8 hrs.; better than 1 MV/wk (at constant ambient temperature, load and line voltage, after warmup).

OUTPUT TERMINALS - Three front-panel binding posts and rear-panel barrier block. Either positive or negative output terminal may be grounded.

METER - Front-panel volt-ammeter permits monitoring output voltage or current with an accuracy of $\pm 2\%$.

REMOTE SENSING - Two terminals on rear-panel barrier block are provided for remote sensing of voltage at the load.

REMOTE PROGRAMMING - Rear terminals are provided for remote programming of the output voltage at 1000 ohms-per-volt. Accuracy of programming is better than 0.01% of value of resistance (including connecting leads).

CURRENT LIMITING - The output current can be limited to any value from 0 to 500 MA by a front-panel control. A push-button permits easy adjustment without the need for shorting the output terminals.

MECHANICAL SPECIFICATIONS

DIMENSIONS - 8 3/8" x 4 3/4" x 8-15/16"

WEIGHT - 9 pounds

FINISH - Brushed anodized aluminum panel with etched black lettering. Dust cover finished in blue enamel; chassis and bottom plate, golden indite.



Pair of Model 2005 Units shown in Type RRB-12 Rack Panel Adapter.

PRICE
\$325.00
FOB Westbury

PRINTED IN U.S.A.

POWER DESIGNS, INC.
1700 SHAMES DRIVE • WESTBURY, N.Y.
516 EDgewood 3-6200 TWX: 510-222-6561

POWER DESIGNS PACIFIC, INC.
3281 JUNIPERO SERRA • PALO ALTO, CALIFORNIA
415-321-6111 TWX: 910-373-1251