



**1746A**



**1730A**



**1735A**

# Single Output DC Power Supplies

- Largest selection of voltage and current ratings ever offered
- Connect two supplies in parallel to double the current output
- Connect two supplies in series to double the voltage output
- Reliable, Durable
- Operate continuously at full load without overheating
- Fully overload protected

- Coarse and fine voltage controls
- Excellent regulation
- Very low ripple
- Constant voltage or constant current operation
- Continuously monitor voltage and current output on two meters
- cUL Approved for models 1710A, 1711A, 1715A, 1730A, 1735A

## Specifications

|                            | models  |                |                         |                  |                         |                                       |                         |              |
|----------------------------|---|----------------|-------------------------|------------------|-------------------------|---------------------------------------|-------------------------|--------------|
|                            | 1710A   | 1711A          | 1715A                   | 1730A            | 1735A                   | 1740A                                 | 1743A                   | 1746A        |
| Output Voltage             | 0-30 V  | 0-60 V         | 0-60 V                  | 0-30 V           | 0-30 V                  | 0-60 V                                | 0-35 V                  | 0-16 V       |
| Output Current             | 0-1A  | 0-2 A          |                         | 0-3 A            |                         | 0-4 A                                 | 0-6 A                   | 0-10A        |
| Constant Voltage Operation |   |                |                         |                  |                         |                                       |                         |              |
| Voltage Regulation         |   |                |                         |                  |                         |                                       |                         |              |
| Line (120VAC ±10%)         |   |                | ≤0.01% + 3 mV           |                  |                         | ≤0.2% + 2mV                           |                         |              |
| Load (no load - full load) |   |                | ≤0.01% + 3 mV           |                  |                         | ≤0.04% + 2mV                          |                         |              |
| Recovery Time              |   |                | ≤100 μs                 |                  |                         | ≤100 μs                               |                         |              |
| Ripple & Noise             |   |                | ≤1mV rms                |                  |                         | ≤1mV rms                              |                         |              |
| Temperature Coefficient    |   |                | ≤300 ppm/°C             |                  |                         | ≤300 ppm/°C                           |                         |              |
| Constant Current Operation |   |                |                         |                  |                         |                                       |                         |              |
| Adjustable Current Range   |   |                | 5% to 100%              |                  |                         | 5% to 100%                            |                         |              |
| Current Regulation         |   |                |                         |                  |                         |                                       |                         |              |
| Line (120VAC ±10%)         |   |                | ≤0.2% + 3mA             |                  |                         | ≤0.4% + 5mA                           |                         |              |
| Load                       |   |                | ≤0.2% + 3mA             |                  |                         | ≤0.4% + 5mA                           |                         |              |
| Current Ripple             |   |                | ≤3mArms                 |                  |                         | ≤3mArms                               |                         |              |
| Metering                   |   |                |                         |                  |                         |                                       |                         |              |
| Type                       | Analog  | Analog         | 4-digit LED             | Analog           | 4-digit LED             | Analog                                | 4-digit LED             | Analog       |
| Voltmeter Range            | 0-32V   | 0-64V          | 0-99.99V (green)        | 0-32V            | 0-99.99V (green)        | 0-64V                                 | 0-99.99V (green)        | 0-16V        |
| Voltmeter Accuracy         | ±2.5%   | ±2.5%          | ± (0.5% rdg + 9 digits) | ±2.5%            | ± (0.5% rdg + 9 digits) | ±2.5%                                 | ± (0.5% rdg + 9 digits) | ±2.5%        |
| Ammeter Range              |   |                |                         |                  |                         |                                       |                         |              |
| High Range                 | 0-1.04 A  | 0-2.2 A        | 0-9.999 A (red)         | 0-3.2 A          | 0-9.999 A (red)         | 0-4.4 A                               | 0-9.999 A (red)         | 0-11 A       |
| Low Range                  | 0-0.26 A  | 0-0.55 A       |                         | 0-0.53 A         |                         | 0-1.1 A                               |                         | 0-2.2 A      |
| Ammeter Accuracy           | ± 2.5%  | ± 2.5%         | ± (0.5% rdg + 9 digits) | ±2.5%            | ± (0.5% rdg + 9 digits) | ± 2.5%                                | ± (0.5% rdg + 9 digits) | ± 2.5%       |
| Overload Protection        | Current limiting, reverse polarity, overvoltage, short circuit                  |                |                         |                  |                         |                                       |                         |              |
| Power Requirements         | 120 VAC ±10%, 60 Hz only (120/220/230/240 VAC ±10%, 50/60 Hz version available) |                |                         |                  |                         |                                       |                         |              |
| Power Consumption          | 70W   | 210W           | 210W                    | 180W             | 180W                    | 450W                                  | 420W                    | 380W         |
| Operating Temperature      | 32° to 104°F (0° to 40°C), ≤75% R.H.  |                |                         |                  |                         |                                       |                         |              |
| Storage Temperature        | 5° to 158°F (-15° to +70°C), ≤85% R.H.  |                |                         |                  |                         |                                       |                         |              |
| Dimensions (HxWxD)         | 6.2 x 5.5 x 12.5" (158 x 140 x 318 mm)  |                |                         |                  |                         | 5.7 x 10.5 x 15" (145 x 267 x 381 mm) |                         |              |
| Weight                     | 8 lb.(3.6 kg)   | 12 lb.(5.4 kg) | 12 lb.(5.4 kg)          | 10.5 lb.(4.7 kg) | 10.5 lb.(4.7 kg)        | 23 lb.(10.4 kg)                       | 24 lb.(10.8 kg)         | 20 lb.(9 kg) |

## Accessories

**Two Year Warranty**

OPTIONAL: Hook-up leads - up to 5 amps Model TL-5A, up to 30 amps Model TL-30