

Data Sheet

Single Output DC Power Supplies Models 1710A, 1711A, 1715A, 1730A & 1735A



Model 1730A



Model 1735A

The 1710A and 1730A series are high quality, general purpose DC power sources. They provide exceptional accuracy with dual analog displays and coarse and fine voltage and current controls (1710A coarse/fine voltage control only)

Features & Benefits

- Continuously monitor voltage and current output on two analog meters
- 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
- cUL certified

| Specifications | 1710A | 1711A | 1715A | 1730A | 1735A |
|-----------------------------------|---|-------------------|------------------------|---------------------|------------------------|
| Output Voltage | 0-30 V | 0-60 V | 0-60 V | 0-30 V | 0-30 V |
| Output Current | 0-1 A | 0-2 A | | 0-3 A | |
| Constant Voltage Operation | | | | | |
| Voltage Regulation | Line (120 VAC ±10%) <0.01% + 3 mV Load (no load - full load) <0.01% + 3 mV | | | | |
| Recovery Time | < 100 μs | | | | |
| Ripple & Noise | < 1 mV rms | | | | |
| Temperature Coefficient | <300 ppm/°C | | | | |
| Constant Current Operation | | | | | |
| Adjustable Current Range | 5% to 100% | | | | |
| Current Regulation | Line (120 VAC ±10%) <0.2% + 3 mA Load <0.2% + 3 mA | | | | |
| Current Ripple | <3 mArms | | | | |
| Metering | | | | | |
| Type | Analog | Analog | 4-digit LED | Analog | 4-digit LED |
| Voltmeter Range | 0-32 V | 0-64 V | 0-99.99 V (green) | 0-32V | 0-99.99 V (green) |
| Voltmeter Accuracy | ±2.5% | ±2.5% | ± (0.5% rdg +9 digits) | ±2.5% | ± (0.5% rdg +9 digits) |
| 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) |
| Low Range | 0-0.26 A | 0-0.55 A | - | 0-0.53 A | - |
| Ammeter Accuracy | ±2.5% | ±2.5% | ± (0.5% rdg +9 digits) | ±2.5% | ± (0.5% rdg +9 digits) |
| General | | | | | |
| 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 | 70 W | 210 W | 210 W | 180 W | 180 W |
| 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 (H x W x D) | 6.2" x 5.5" x 12.5" (158 x 140 x 318 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) |
| Two-Year Warranty | | | | | |
| Included Accessories | Instruction manual & power cord | | | | |