

Data Sheet

Single Output DC Power Supplies Models 1740B, 1743B, 1744A, 1745A & 1746B

These power supplies have all of the great features you would expect B+K Precision power supplies to have and some new features not normally seen on power supplies in this price range. The output-shortening button allows the user to short the output terminals to set the current limit.



Model 1744A



Model 1745A

| Specifications | 1740B | 1743B | 1746B | 1744A | 1745A |
|-----------------------------------|---|-------------------------|--------------|---------------|-------------------------|
| Output Voltage | 0-60 V | 0-35 V | 0-16 V | 0-35 V | 0-35 V |
| Output Current | 0-4 A | 0-6 A | 0-10 A | 0-10 A | 0-10 A |
| Constant Voltage Operation | | | | | |
| Voltage Regulation | Line (120 VAC \pm 10%) $<$ 0.2% + 2 mV Load (no load - full load) $<$ 0.04% + 2 mV | | | | |
| Recovery Time | $<$ 100 μ s | | | | |
| Ripple & Noise | 1 mV rms (Typical) | | | | |
| Temperature Coefficient | $<$ 300 ppm/ $^{\circ}$ C | | | | |
| Constant Current Operation | | | | | |
| Adjustable Current Limit | 5% to 100% | | | | |
| Current Regulation | Line (120 VAC \pm 10%) $<$ 0.4% + 5 mA Load $<$ 0.4% + 5 mA | | | | |
| Current Ripple | $<$ 3 mArms | | | | |
| Metering | | | | | |
| Type | 2-Analog | Dual 4-digit LED | 2-Analog | 2-Analog | Dual 4-digit LED |
| Voltmeter Range | 0-64 V | 0-99.99 V (green) | 0-16 V | 0-40 V | 0-99.99 V |
| Voltmeter Accuracy | \pm 2.5% | \pm (0.5% + 9 digits) | \pm 2.5% | \pm 2.5% | \pm (0.7% + 9 digits) |
| Ammeter Range | | | | | |
| High Range | 0-4.4 A | 0-9.999 A (red) | 0-11 A | 0-11 A | 0-9.999 A |
| Low Range | 0-1.1 A | - | 0-2.2 A | 0-2.2 A | - |
| Ammeter Accuracy | \pm 2.5% | \pm (0.5% + 9 digits) | \pm 2.5% | \pm 2.5% | \pm (0.7% + 9 digits) |
| General | | | | | |
| Overload Protection | Current limiting, reverse polarity, overvoltage, short circuit | | | | |
| AC Input | 120/220 VAC \pm 10%, 50/60 Hz | | | | |
| Power Consumption | 450 W | 420 W | 380 W | 560 W | 560 W |
| Operating Temperature | 32 to 104 $^{\circ}$ F (0 to 40 $^{\circ}$ C), $<$ 75% R.H. | | | | |
| Storage Temperature | 5 to 158 $^{\circ}$ F (-15 to +70 $^{\circ}$ C), $<$ 85% R.H. | | | | |
| Dimensions (H x W x D) | 5.7" x 10.5" x 15" (145 x 267 x 381 mm) | | | | |
| Weight | 23 lbs (10.4 kg) | | 20 lbs (9.1) | 27 lbs (12.2) | |
| Two-Year Warranty | | | | | |
| Included Accessories | Instruction manual , spare fuse and power cord | | | | |

Features & Benefits

- 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

AMEYA360

Components Supply Platform

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