

Models 1740B, 1743B, 1746B, 1744A & 1745A

Single Output DC Power Supplies

Data Sheet



Model 1740B



Model 1743B

B+K Precision models 1744A and 1745A are 0 to 35V, 0 to 10A DC Power Supply. 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-shorting button allows the user to short the output terminals to set the current limit.

Specifications

	1740B	1743B	1746B	1744A	models 1745A
Output Voltage	0-60 V	0-35 V	0-16 V	0-35V	0-35V
Output Current	0-4 A	0-6 A	0-10A	0-10A	0-10A
Constant Voltage Operation					
Voltage Regulation					
Line (120VAC $\pm 10\%$)	$\leq 0.2\% + 2\text{mV}$				
Load (no load - full load)	$\leq 0.04\% + 2\text{mV}$				
Recovery Time	$\leq 100 \mu\text{s}$				
Ripple & Noise	1 mV rms (Typical)				
Temperature Coefficient	$\leq 300 \text{ ppm}/^\circ\text{C}$				
Constant Current Operation					
Adjustable Current Limit	5% to 100%				
Current Regulation					
Line (120VAC $\pm 10\%$)	$\leq 0.4\% + 5\text{mA}$				
Load	$\leq 0.4\% + 5\text{mA}$				
Current Ripple	$\leq 3\text{mA rms}$				
Metering					
Type	2-Analog	Dual 4-digit LED	2-Analog	2-Analog	Dual 4-digit LED
Voltmeter Range	0-64V	0-99.99V (green)	0-16V	0-40V	0-99.99V
Voltmeter Accuracy	$\pm 2.5\%$	$\pm (0.5\% \text{ rdg} + 9 \text{ digits})$	$\pm 2.5\%$	$\pm 2.5\%$	$\pm (0.7\% + 9 \text{ digits})$
Ammeter Range					
High Range	0-4.4 A	0-9.999 A (red)	0-11 A	0-11 A	0-9.999
Low Range	0-1.1 A	--	0-2.2 A	0-2.2 A	--
Ammeter Accuracy	$\pm 2.5\%$	$\pm (0.5\% \text{ rdg} + 9 \text{ digits})$	$\pm 2.5\%$	$\pm 2.5\%$	$\pm 0.7\% + 9 \text{ digits}$
Overload Protection	Current limiting, reverse polarity, overvoltage, short circuit				
Power Requirements	120/220 VAC $\pm 10\%$, 50/60 Hz				
Power Consumption	450W	420W	380W	560W	560W
Operating Temperature	32° to 104°F (0° to 40°C), $\leq 75\%$ R.H.				
Storage Temperature	5° to 158°F (-15° to +70°C), $\leq 85\%$ R.H.				

- 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

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Specifications subject to change without notice