

0-35V, 0-10A, Digital DC Power Supply Model 1745A



B+K Precision model 1745A is a 0 to 35V, 0 to 10A DC Power Supply. This power supply has all of the great features and performance you would expect from a B+K Precision power supply. One of these features is the four digit LED display that allows you to see 10mV and 1mA resolution. Another great feature is the output shorting button that allows the user to short the output terminals to set the current limit.

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

	models				
	1740B	1743B	1746B	1744A	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 ± 10%)	≤ 0.2% + 2mV				
Load (no load - full load)	≤ 0.04% + 2mV				
Recovery Time	≤ 100 μs				
Ripple & Noise	1 mV rms (Typical)				
Temperature Coefficient	≤ 300 ppm/°C				
Constant Current Operation					
Adjustable Current Limit	5% to 100%				
Current Regulation					
Line (120VAC ± 10%)	≤ 0.4% + 5mA				
Load	≤ 0.4% + 5mA				
Current Ripple	≤ 3mA _{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	± 2.5%	± (0.5% rdg + 9 digits)	± 2.5%	+ 2.5%	± (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
Low Range	0-1.1 A	--	0-2.2 A	0-2.2 A	--
Ammeter Accuracy	± 2.5%	± (0.5% rdg + 9 digits)	± 2.5%	± 2.5%	± 0.7% + 9 digits
Overload Protection	Current limiting, reverse polarity, overvoltage, short circuit				
Power Requirements	120/220 VAC ± 10%, 50/60 Hz				
Power Consumption	450W	420W	380W	560W	560W
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.				

- 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