

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.

Specification	JIIS 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 \pm 10%)			<0.2% + 2mV		
Load (no load - full load)			$\leq 0.2\% + 2 \text{mV}$ < 0.04% + 2 mV		
Recovery Time			$\leq 0.04\% + 2111V$		
Ripple & Noise			≤100 μs 1 mV rms (Typical)		
Temperature Coefficient			≤300 ppm/°C		
			<u><</u> 300 ppiii/ C		
Constant Current Operation					
Adjustable Current Limit			5% to 100%		
Current Regulation					
Line (120VAC \pm 10%)			<u><</u> 0.4% + 5mA		
Load			\leq 0.4% + 5mA		
Current Ripple			<3mArms		
Metering					
Туре	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

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