Data Sheet

Dual Range DC Power Supplies Models 1737 & 1747



B&K Precision's models 1737 and 1747 are general purpose dual range DC power sources. These power supplies can output higher voltage at a lower current range or more current at a lower voltage range. Two 4-digit LED displays continuously monitor the output voltage and current. The power supplies can be operated locally from the front panel or remotely through the RS-232 interface.



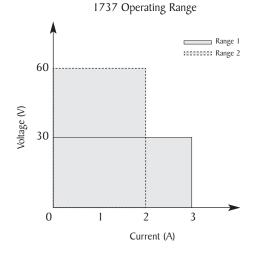
The 1737 and 1747 both exhibit excellent regulation and low ripple characteristics. Their mechanical configuration conserves bench space and allows for easy portability.

These power supplies are well-suited for a wide variety of electrical and electronics applications in service shops, engineering labs, production, school laboratories, and home use.

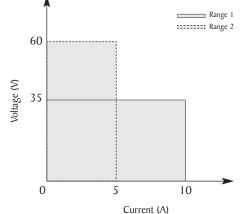
Output Ratings/Model	1737	1747
Voltage	0 - 60 V	
Current	0-3 A (0-30 V range) 0-2 A (0-60 V range)	0-10 A (0-35 V range) 0-5 A (0-60 V range)

Features and Benefits

- Dual range to accommodate applications requiring either a higher voltage or a higher current
- Low ripple and noise
- Excellent regulation
- Constant voltage (CV) and constant current (CC) mode operation
- Two 4-digit LED displays provide good visibility in bright or low light
- LED indication for CV and CC modes
- Automatic recall of last settings on power up
- RS-232 interface
- Front panel emulation software available for download
- Isolated output
- Overload protection
- Reverse polarity protection



1747 Operating Range



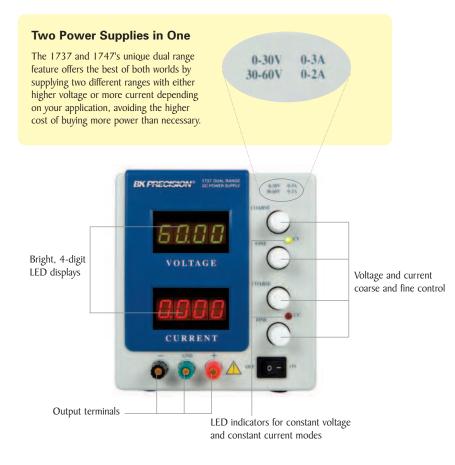
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Front Panels





Rear Panels



Utilize B&K Precision's application software, available for download at www.bkprecision.com. This software provides a virtual front panel and a simple data logging function to store and log data to a text or CSV file.

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Specifications

Model	1737	1747	
Output Ratings (0 °C~40 °C)			
Voltage	0-60 V		
Current	0-3 A (0-30 V range) 0-2 A (0-60 V range)	0-10 A (0-35 V range) 0-5 A (0-60 V range)	
Load Regulation ± (% of output+offse	t)	I	
Voltage	0.01% + 3 mV	0.01% + 5 mV	
Current	0.2% + 3 mA		
Line Regulation \pm (% of output+offset)		
Voltage	0.01% + 3 mV		
Current	0.2% + 3 mA		
Ripple & Noise (20 Hz ~ 20 MHz)			
Voltage	I mVrms		
Current	≤ 3 mArms		
Recovery Time			
Time	$\leq 100 \mu s$		
Meter Resolution			
Voltage	10 mV		
Current	I mA	1 mA (0-5 A) 10 mA (5-10 A)	
Meter Accuracy		1	
Voltage	0.5% + 9 digits	0.5% + 5 digits	
Current	0.5% + 9 digits	0.5% + 5 digits	
General			
Power Requirements	120/220 VAC ±10%, 50/60 Hz	115/230 VAC ±10%, 50/60 Hz	
Power Consumption	≤ 180 VA	≤ 560 VA	
Protection	Reverse polarity, current limiting		
Operating Environment			
Temperature	32 °F to 104 °F (0 °C to 40 °C)		
Humidity	75% R.H.		
Temperature coefficient (0 $^{\circ}C$ ~35 $^{\circ}C$) (%of output+offset)	300 ppm/°C		
Storage Temperature	5 °F to 158 °F (-15° to +70° C)		
Storage Humidity	85% R.H.		
Mechanical Specifications	·		
Weight	10.5 lbs (4.8 kg)	30.2 lbs (13.7 kg)	
Dimensions (W x H x D)	5.5" x 6.2" x 12.5" (140 x 158 x 318 mm)	10.75" x 6" x 14" (273 x 153 x 356 mm	
	1	Two Year Warrant	

Note: All specifications apply to the unit after a temperature stabilization time of 30 minutes.