

Data Sheet

Dual Range DC Power Supply Model 1737



B&K Precision's model 1737 is a general purpose dual range DC power source. This power supply can output higher voltage at a lower current range or higher current at a lower voltage range. Two 4-digit LED displays continuously monitor the output voltage and current. The power supply can be operated locally from the front panel or remotely through the RS-232 interface.

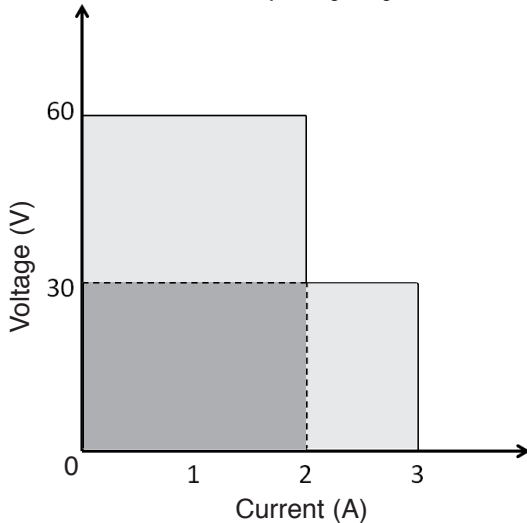
The 1737 exhibits excellent regulation and low ripple characteristics. The mechanical configuration conserves bench space and allows for easy portability.

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

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

1737 Operating Range



Software Application

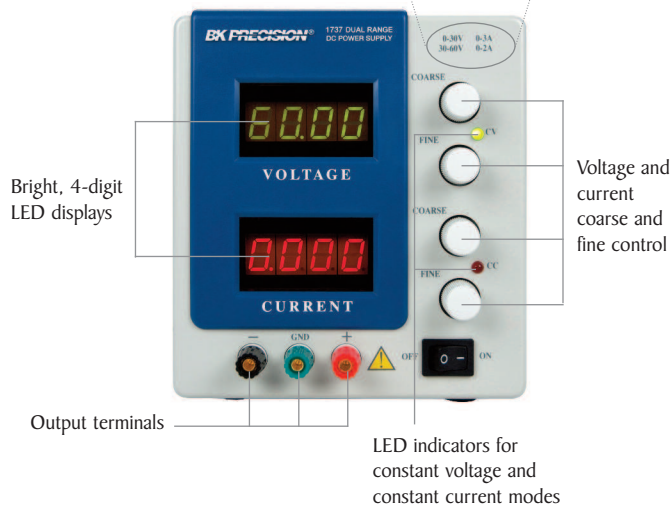
Utilize B&K Precision's application software, available for download at www.bkprecision.com. This software provides a virtual front panel and a simple data logging function to store and log data to a text or CSV file.

Front Panel

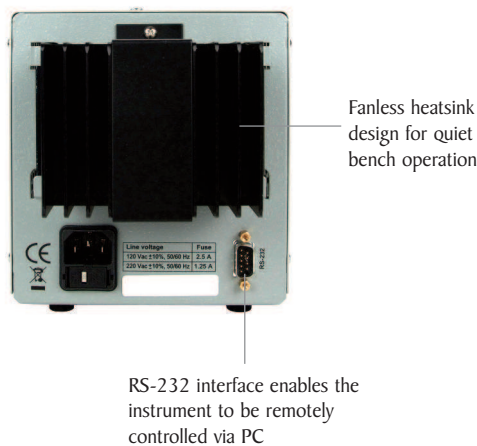
Two Power Supplies in One

The 1737's unique dual range feature offers the best of both worlds by supplying two different ranges with either higher voltage or higher current depending on your application, avoiding the greater cost of buying more power than necessary.

0-30V 0-3A
30-60V 0-2A



Rear Panel



Specifications

Model	1737
Output Ratings (0 °C~40 °C)	
Range 1	0-30 V / 0-3 A
Range 2	0-60 V / 0-2 A
Load Regulation ±(% of output+offset)	
Voltage	0.01% + 3 mV
Current	0.2% + 3 mA
Line Regulation ±(% of output+offset)	
Voltage	0.01% + 3 mV
Current	0.2% + 3 mA
Ripple & Noise (20 Hz ~ 20 MHz)	
Voltage	1 mVrms
Current	≤ 3 mArms
Recovery Time	
Time	≤ 100 μs
Meter Resolution	
Voltage	10 mV
Current	1 mA
Meter Accuracy	
Voltage	0.5% + 9 digits
Current	0.5% + 9 digits
General	
Power Requirements	120/220 VAC ±10%, 50/60 Hz
Power Consumption	≤ 180 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 °C~35 °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)
Dimensions (W x H x D)	5.5" x 6.2" x 12.5" (140 x 158 x 318 mm)
Two Year Warranty	
Included Accessories: Power cord, instruction manual, RS-232 cable, shorting bar	

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