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.



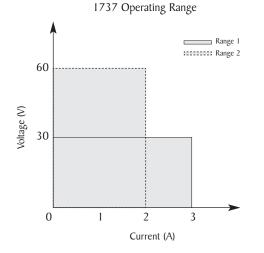
The 1737 and 1747 both exhibit excellent regulation and low ripple characteristics. Their mechanical configuration conserves bench space and allows for easy portability.

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.

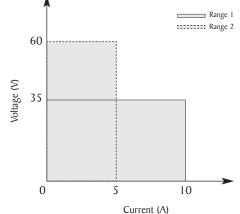
| Output Ratings/Model | 1737 | 1747 |
|----------------------|--|---|
| Voltage | 0 - 60 V | |
| Current | 0-3 A (0-30 V range) 0-2 A (0-60 V range) | 0-10 A (0-35 V range) 0-5 A (0-60 V range) |

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



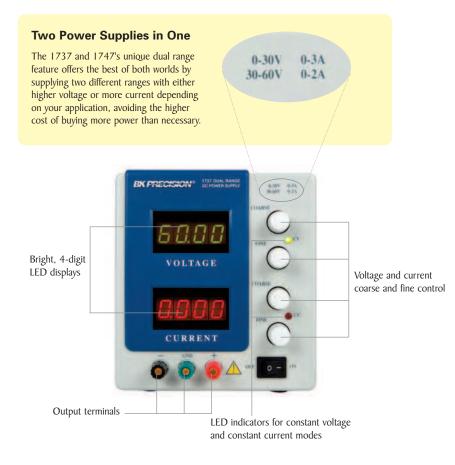
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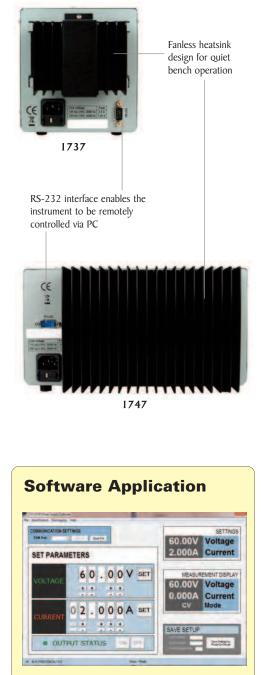
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Front Panels





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.

www.valuetronics.com

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.