

# Programmable DC Power Supplies



**1785A**

## Model 1785A, 1786A, 1787A Programmable DC Power Supply

Models 1785, 1786, 1787 Programmable Power Supplies offer a new level of "ease-of-use" and programmable functionality in a low-cost solution. Direct key-in entry makes voltage and current selection fast, accurate and easy. User programmed outputs allow the operator to preset 99 frequently used voltage and current settings into memory for easy recall. Preprogram a 10 step output routine via the keypad or PC interface for automated testing in preproduction, production or R&D environments. In-case calibration allows for simple, cost-savings, uninterrupted operation.

- Nine user-programmable preset outputs
- Ten step user-programmable output routine
- In-case calibration
- Serial interface cable and software included
- Download upgraded software from [www.bkprecision.com](http://www.bkprecision.com)

## Model 1770, 1775, 1780 GPIB Programmable Power Supplies

Offering the best cost per watt available to answer virtually any application, you can select from three versatile models in popular voltage and current ratings. Each model features excellent reliability (50K hrs. MTBF) and user flexibility. You can choose voltages to 35VDC, currents to 6A in single and dual output models, and rest assured you'll find the quality you have come to expect from B+K.

- Excellent programming resolution and accuracy
- Dual output, dual range flexibility meets most needs; connect in series or parallel for increased voltage or current capabilities (Models 1780 and 1775)
- Integral system software makes in-case calibration quick and accurate
- Large character LCD display assures fast, "easy-to-read" measurements



**1775**

B+K Precision power supplies can be used in a wide variety of applications such as: Electronics, Manufacturing, Design Labs, Electronic Education and Battery Charging.

### Specifications

| Specifications        |                                             |         | models   |
|-----------------------|---------------------------------------------|---------|----------|
|                       | 1785A                                       | 1786A   | 1787A    |
| Output (DC)           | 0 - 18V                                     | 0 - 30V | 0 - 60V  |
| Output Current (Amp.) | 0 - 5A                                      | 0 - 3A  | 0 - 1.5A |
| Metering Accuracy     | +(0.5% + 1 digits)                          |         |          |
| Ripple & Noise (RMS)  | 1mV                                         |         |          |
| Line Regulation       | 0.02% + 5mV                                 |         |          |
| Load Regulation       | 0.02% + 5mV                                 |         |          |
| RS-232                | Option                                      |         |          |
| Operating Voltage     | "120V, 60Hz (or on request 220 - 240V)"     |         |          |
| Dimension (WxHxD)     | "8.07 x 4.53 x 10.63" (205 x 115 x 270 mm)" |         |          |
| Accessory Supplied    | "User Manuals, Software"                    |         |          |
| Weight                | Approximately 11lbs. (5Kg)                  |         |          |
| Display               | LED Voltmeter & Ampmeter                    |         |          |

### Accessories

### Two Year Warranty

SUPPLIED: User Manual, Serial Cable, Windows® & DOS Software

### Specifications

|                              | 1770                                 | 1775           | models<br>1780 |
|------------------------------|--------------------------------------|----------------|----------------|
| DC Output MAX Ratings        |                                      |                |                |
| Voltage                      | 0-17.5V; 0-35V                       | 0-35V          | 0-18V          |
| Current                      | 0-6A; 0-3A                           | 0-2A           | 0-4A           |
| Programming Resolution       |                                      |                |                |
| Voltage                      | 10mV                                 | 10mV           | 5mV            |
| Current                      | 2mA                                  | 0.6mA          | 1.5mA          |
| OVP                          | 200mV                                | 200mV          | 100mV          |
| Programming Accuracy         |                                      |                |                |
| Voltage                      | 0.05% + 2 LSB                        | 0.05% + 2 LSB  | 0.05% + 2 LSB  |
| Current                      | 0.15% + 5 LSB                        | 0.15% + 5 LSB  | 0.15% + 5 LSB  |
| OVP                          | 2.4% + 0.3V                          | 2.4% + 1.3V    | 2.4% + 0.6V    |
| Line Regulation (120V ± 10%) | 0.001%                               |                |                |
| Load Regulation              | 0.001% + 1mV                         |                |                |
| Ripple & Noise               | 1mVrms                               |                |                |
| Operating Voltage            | 110 - 120VAC, 220 - 230VAC           |                |                |
| Dimensions (W x H x D)       | 8.4 x 5.2 x 15.7 (213 x 132 x 398mm) |                |                |
| Weight                       | 18lbs. (8.1kg)                       | 20lbs. (9.0kg) | 18lbs. (8.1kg) |
| Display                      | 4 digit alphanumeric LCD             |                |                |

### Accessories

### Three Year Warranty

SUPPLIED: User Manual,  
OPTIONAL(for all models): TL-5A Hook up cables

# Mouser Electronics

Authorized Distributor

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[1786A](#)