

Data Sheet

Models 1785B, 1786B, 1787B & 1788

Programmable DC Power Supplies

Models 1785B, 1786B, 1787B & 1788 are Programmable DC Power Supplies that offer new levels of "ease of use" and programmable functionality. Direct key in entry makes voltage and current selection fast, accurate and easy. In case calibration allows for simple, cost savings, uninterrupted operation.

- Sixteen user programmable preset outputs
- Controllable Output On/Off Switch
- 10mV/10mA setable resolution
- Closed case calibration
- Low ripple and noise
- Excellent temperature stability
- Serial interface cable and software included



Model 1788

| Specifications | | models | | | |
|---|---|---------|----------|---------|--|
| | 1785B | 1786B | 1787B | 1788 | |
| Parameter | | | | | |
| Output Ratings, (0 °C - 40 °C) | | | | | |
| Voltage | 0 ~ 18V | 0 ~ 32V | 0 ~ 72V | 0 ~ 32V | |
| Current | 0 ~ 5A | 0 ~ 3A | 0 ~ 1.5V | 0 ~ 6A | |
| Load Regulation, ±(% of output + offset) | <0.01% + 3mV, Model 1788 = <0.02% + 5mV | | | | |
| Voltage | <0.1% + 2mA | | | | |
| Current | <0.1% + 2mA | | | | |
| Line Regulation, ±(% of output + offset) | <0.1% + 3mV | | | | |
| Voltage | <0.1% + 2mA | | | | |
| Current | <0.1% + 2mA | | | | |
| Ripple, (20Hz ~ 20MHz) | ≤ 1mVrms/3mVp-p | | | | |
| Voltage | 5mArms | | | | |
| Current | 5mArms | | | | |



32, rue E. MARTEL - F42100 ST Etienne
Direct Sales Lines:
+33 (0).4.77.59.36.81 ou +33 (0).4.77.59.36.80
Fax: +33 (0).4.77.57.23.23
Web : www.sefram.fr - e-mail : sales@sefram.fr

Specifications subject to change without notice



| Specifications | | model 1787B |
|---|--|---|
| Technical Specifications | | |
| Output Ratings, (0°C - 40°C) | Voltage | 0 ~ 72V |
| | Current | 0 ~ 1.5A |
| | LVP | 0 ~ 73V |
| Load Regulation, ±(% of output + offset) | Voltage | ≤0.01% + 3mV |
| | Current | ≤0.1% + 2mA |
| Line Regulation, ±(% of output + offset) | Voltage | ≤0.1% + 3mV |
| | Current | ≤0.1% + 2mA |
| Programming Resolution | Voltage | 10mV |
| | Current | 110mA |
| Readback Resolution | Voltage | 0.05% + 15mV (<20V) |
| | Current | ≤0.1% + 15mA |
| Programming Accuracy, 12 months, (@ 25°C ± 5°C) ±(% of output + offset) | Voltage | ≤0.05% + 10mV |
| | Current | <0.2% + 10mA |
| Readback Accuracy, 12 months, (@ 25°C ± 5°C) ±(% of output + offset) | Voltage | <0.05% + 15mV (<20V), <0.05% + 120mV (≥20V) |
| | Current | <0.1% + 15mA |
| Ripple (20Hz ~ 20MHz) | Voltage | ≤1mV _{rms} /3mV _{p-p} |
| | Current | 5mA _{rms} |
| Temperature Coefficient, (0°C ~ 40°C) ±(% of output + offset) | Voltage | <0.02% + 5mV |
| | Current | <0.1% + 5mA |
| Readback Temperature Coefficient, ±(% of output + offset) | Voltage | <0.02% + 15mV (<20V), <0.02% + 120mV (≥20V) |
| | Current | <0.1% + 15mA |
| Supplemental Characteristics | | |
| State Storage Memory | Sixteen (16) user-configurable stored states | |
| Recommended Calibration Interval | 1 year | |

| | |
|--|--|
| AC Input Ratings (selectable via switch on the rear panel) | Option OP1: 220VAC \pm 10%, 47 to 63 Hz Option OP2: 110VAC \pm 10%, 47 to 63 Hz |
| Maximum input power | 350VA |
| Cooling | Fan cooled |
| Operating Temperature | 32 to 104°F (0 to 40°C) for full rated output |
| Storage Temperature | -68 to 158°F (-20 to 70°C) for storage environment. |
| Environmental Conditions | Designed for indoor use in an installation category II, pollution degree 2 environment. Designed to operate at maximum relative humidity of 95% and at altitudes of up to 2000 meters. |
| Weight | N.W: 14.8lbs. (6.7kg) G.W: 16.5lbs. (7.5kg) |
| Dimensions (W x H x D) | 10" x 4.16" x 15" (255.7mm x 105.7mm x 382.7mm) |