BK PRECISION
ELECTRONIC TEST INSTRUMENTS

Models 1785B, 1786B 1787B & 1788

Programmable DC Power Supplies

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)				
Voltage	<0.01% + 3mV , Model 1788 = <0.02% + 5mV			
Current	<0.1% + 2mA			
Line Regulation, ±(% of output +offset)				
Voltage	<0.1% + 3mV			
Current	<0.1% + 2mA			
Ripple, (20Hz ~20MHz)				
Voltage	≤ 1mVrms/3mVp-p			
Current	5mArms			

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Specifications		model 1786B
Technical Specifications		
Output Ratings, (0°C - 40°C)	Voltage	0 ~ 32V
	Current	0 ~ 3A
	LVP	0 ~ 33V
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 ± 10%, 47 to 63 Hz Option OP2: 110VAC ± 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)