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User's Manual

EXTECH
INSTRUMENTS

Three Output DC Regulated Power Supplies

Models 382203 (Analog) and 382213 (Digital)



Introduction

Congratulations on selecting Extech's Model 382203 (analog) or 382213 (digital) Regulated DC Power Supply. The 382203 and 382213 are solid state, compact, well regulated supplies suitable for many applications including bench testing, field service, hobby and telecommunication equipment use.

Specifications

	382203	382213
Display	Dual Analog Metering	Dual 3-digit LCD Displays
Voltage Output, DC	0-30V	
Current Output, DC	0 - 3 Amps	
Current Limiting Indicator	Status LED	
Accuracy	± 7% Full Scale	± 1% Full Scale + 2 digits
Ripple and Noise	< 5mV	
Line Regulation	< 0.05% + 10mV	
Fixed Output Voltage	5V / 0.5A (continuous); 1A (max.) 12V / 0.5A (continuous); 1A (max.)	
Power	110/220VAC 50/60Hz (switchable)	
Dimensions	6 x 5.6 x 9.5" (152 x 142 x 242mm) (WxHxD)	
Weight	10 lbs. (4.5 kgs)	

Meter Description

1. Voltage and Current LCD displays
2. Current limit status LED
3. Power switch with status LED
4. 5V & 12V fixed output terminals
5. Output terminals for variable supply
6. Variable voltage and current adjustment knobs



Note: The Model 382213 (LCD metering) is shown above. The Model 382203 (shown on the cover page) uses analog metering.

Operation

1. The Power Supply must be powered using the rated line voltage (110V or 220V) within $\pm 5\%$.
2. Before turning the power supply ON, remove all connected loads and set the Voltage Adjustment Knob to the full counter-clockwise position (0V DC output).
3. To operate the power supply as a constant current supply, the current output should be set between 10% and 100% of the rated value (3A). The Current Limiting Indicator will light when the current limiting circuit is activated.
4. Use the Current and Voltage Adjustment knobs for setting variable Current and Voltage output signals respectively. Use Variable Output Terminals for connections.
5. For 5VDC and 12VDC outputs, use the Fixed Output Terminals.
6. The analog or digital displays will indicate actual current and voltage outputs.
7. Keep the meter's cooling vents (top and sides) clear of obstacles to prevent overheating.