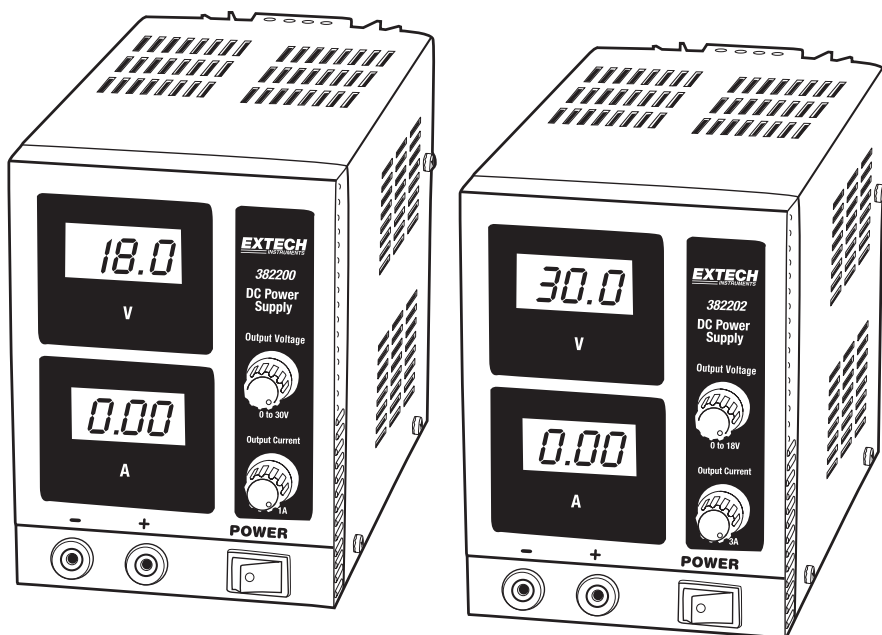


# User's Manual



## DC Regulated Power Supplies

Models 382200 (1Amp) and 382202 (3Amp)



# Introduction

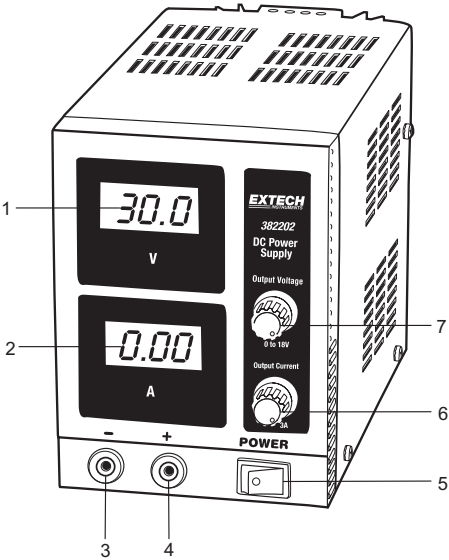
Congratulations on your purchase of the Extech DC Regulated Power Supply. These units are solid state, compact, regulated supplies suitable for many applications including bench testing, field service, hobby and telecommunication equipment use. Careful use of this device will provide years of reliable service.

# Specifications

Model	382200	382202
Display	Dual LCD	
Display Accuracy (V)	$\pm(1.0\%rdg + 2D$	
Display Accuracy (A)	$\pm(1.5\%rdg + 2D)$	
Voltage Output, DC	30.0 Volts	18.0 Volts
Current Output, DC	0 – 1.00 Amp	0 – 3.00 Amps
Ripple and Noise	<0.5mV/<3mA	
Line Regulation	< 0.01% + 3mV/< 0.2% + 3mA	
Load Regulation	< 0.01% + 2mV/< 0.2% + 3mA	
Power	110/220VAC (50/60Hz)	
Dimensions	9.4 x 4.25 x 6" (240 x 108 x 154mm) (WxHxD)	
Weight	4.4lbs. (2 kg)	6.6lbs. (3kg)

# Meter Description

- 1. Voltage display
- 2. Current display
- 3. Negative (-) output terminal
- 4. Positive (+) output terminal
- 5. Illuminated On/Off switch
- 6. Current adjustment
- 7. Voltage adjustment



## Operation

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**CAUTION:** Verify that the AC voltage setting matches your power source BEFORE applying power to the instruments. Do not connect to a voltage source that is greater.

**CAUTION:** Limit full load operation (>25watts for the 382200 and >45watts for the 382202) to 15 minutes continuous operation. Always allow a cool down period after full load operation.

1. The Power Supply must be powered using the rated line voltage within  $\pm 10\%$ .
2. Before turning the power supply ON, remove any load and set the Voltage and Current Adjustment Knobs to their full counter-clockwise positions.
3. Use the Current and Voltage Adjustment knobs for setting variable Current and Voltage output signals respectively.
4. The LCD displays will indicate actual current and voltage outputs.
5. Keep the meter's cooling vents (top and sides) clear of obstacles to prevent overheating.

### Current Limit

To avoid having the load draw too much current, a current limit can be set as follows: With the voltage and current output adjustments set fully off, carefully short the positive and negative output terminals together. Turn the Output Voltage knob clockwise to the 25% position (approx). Adjust the Output Current knob clockwise until the desired current level is displayed. Turn the Output Voltage knob counter-clockwise (current display will go to 0.00). Connect a load to the output terminals and adjust the voltage to the desired level.

## Warranty

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EXTECH INSTRUMENTS CORPORATION warrants the basic instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 EXTENSION 210 for authorization or visit [www.extech.com](http://www.extech.com) for more information. **A Return Authorization (RA) number must be issued before any product is returned to Extech.** The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

## Calibration and Repair Services

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Extech offers repair and calibration services for the products we sell. Extech also provides NIST certification for most products. Call the Customer Service Department for information on calibration services available for this product. Extech recommends that annual calibrations be performed to verify meter performance and accuracy.



**Support line (781) 890-7440**

Technical support: Extension 200; E-mail: [support@extech.com](mailto:support@extech.com)

Repair & Returns: Extension 210; E-mail: [repair@extech.com](mailto:repair@extech.com)

**Product specifications subject to change without notice**

For the latest version of this User's Guide, Software updates, and other up-to-the-minute product information, visit our website: [www.extech.com](http://www.extech.com)

Extech Instruments Corporation, 285 Bear Hill Rd., Waltham, MA 02451

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