OL 700-10
Programmable Precision Power Supply for LEDs

The OL 700-10 Programmable Precision Power Supply offers a lower cost solution to accurately controlling the drive currents of LEDs and small incandescent sources. It is completely controlled by a remote computer via a USB interface.

The OL 700-10 can be configured to run in current or voltage regulated modes with programmable over current and voltage limits.

The control program gives full remote access to the current source setting. Active X™ is also provided for custom programming.

Control of the OL 700-10 is integrated into the application software of the OL 770-LED spectroradiometer to provide a total measurement package, incorporating remote switching and time setting. The OL 700-10 is also available as a stand-alone power supply and comes complete with all necessary software controls for USB interface.

Specifications

Current Source/ Measure Range
OL 700-10-2000 ..... ± 2000 mA
OL 700-10-200 ..... ± 200 mA
OL 700-10-50 ..... ± 50 mA

Current Source/ Measure Resolution
OL 700-10-2000 ..... 0.1 mA
OL 700-10-200 ..... 0.01 mA
OL 700-10-50 ..... 0.0025 mA

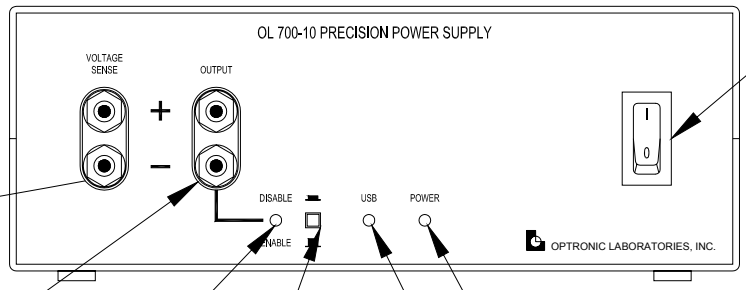
Current Source/ Measure Accuracy ..... 0.02% of Full Scale
Voltage Source/ Measure Range ..... ± 6.0 Volts
Voltage Source/ Measure Resolution ..... 0.3 mV
Voltage Source/ Measure Accuracy ..... 0.02% of Full Scale

Size ..... 10 in. (25.4 cm) x 6.5 in. (16.5 cm) x 3.8 in. (9.65 cm)
Weight ..... 5 lbs (2.2 kg)

Operating Temperature ..... 0° – 40°C (32° - 100°F)
Operating Humidity ..... 0 - 90% non-condensing

User Interface ..... Virtual interface via PC, USB Connection

OL 700-10 Front Panel



POWER SWITCH - controls the power to the unit

VOLTAGE SENSE TERMINALS - the inputs to the circuitry that measures the voltage across the load

OUTPUT TERMINALS - the source of power to the load

POWER INDICATOR - indicates that the power is on

OUTPUT INDICATOR - indicates the state of the output terminals

USB INDICATOR - indicates USB activity

DISABLE SWITCH - disables the output terminal regardless of what the software has commanded

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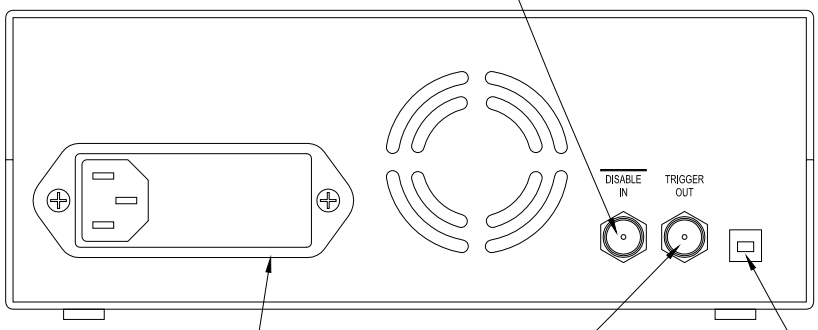
OL 700-10 Rear Panel

DISABLE INPUT - disables the output terminal regardless of what the software has commanded



INPUT POWER MODULE (IPM) - connects the power cord to the unit

TRIGGER OUT CONNECTOR - supplies trigger signals that can be used to trigger events in external equipment

USB CONNECTOR - connects the unit to a computer's USB port

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OPTRONIC LABORATORIES
A Gooch & Housego Company

Optronic Laboratories, Inc. 4632 36th Street, Orlando, FL 32811
Tel: 1 407 422 3171 Fax: 1 407 648 5412 Email: info@olinet.com