

VI-700 Series

Various features and options make the VI-700 an effective choice for many manual and programmable voltage and current applications.

- Voltage output range of 100 μ V to 20 V or 200 V
- Current output range of 0.1 μ A to 20 mA or 200 mA
- 3½ digit resolution, 0.75 LSD accuracy
- Manual thumbwheel operation or programmable digital input, IEEE-488 or parallel BCD interface.
- Optional portable power pack
- May be used as a component in a closed loop control system

Improved specifications



Model VI-700 Precision Voltage and Current Source

SPECIFICATIONS

Voltage	
Output Ranges	200 mV, 2 V, 20 V; (200 V with HV option).
Resolution	100 μ V, 1 mV, 10 mV; (100 mV with HV option).
Accuracy	\pm (75 ppm + 50 μ V); 200 mV range; \pm (75 ppm + 0.25 mV), 2 V range; \pm (75 ppm + 2.5 mV), 20 V range; at 23°C, no load, after warmup.
Output Current	70 mA, (200 mA with HP option) maximum load up to 20 V; (10 mA for 200 V range with HV option); with LED overload indicator.
Output Impedance	5 m Ω typical, 40 m Ω for 20 V range.
Noise and Ripple	50 μ Vrms on 200 mV and 2 V ranges; 50 μ Vrms on 200 mV and 2 V ranges; 100 μ Vrms on 20 V range.
Tempco	\pm 10 ppm/°C typical; \pm 15 ppm/°C max.

Current	
Output Ranges	200 μ A, 2 mA, 20 mA, 200 mA (with HI option).
Resolution	0.1 μ A, 1 μ A, 10 μ A; 100 μ A (with HI option).
Accuracy \pm (75 ppm)	+ .05 μ A); 200 μ A; \pm (75 ppm + 0.25 μ A), 2 mA; \pm (75 ppm + 2.5 μ A), 20 mA; 23°C, no load.
Compliance Voltage	0-20 V; with LED overload indicator.
Noise	8-20 nA.

General	
Digital Input	3½ digit parallel BCD or IEEE-488 interface; a front panel push-button selects REMOTE or LOCAL operation.
Isolation	Floating outputs, optically isolated from digital inputs; voltage and current out- puts may be used in either polarity.
Power Requirements	105-125 V or 210-250 V; 50-60 Hz; 5 W.
Dimensions	21.6 cm W x 12.6 cm H x 22.9 cm D (8.5" x 2.8" x 9.0") for Standard Model; 21.6 cm W x 8.7 cm H x 23.5 cm (8.5" x 3.44" x 9.25") for IEEE-488 interface option.
Weight	2.3 kg (5 lb).

Operating Temperature Range: 10°C to 40°C.
Storage Temperature Range: -40°C to 60°C.

ORDERING INFORMATION

Model VI-700-110	Precision Voltage & Current Source; 110 Vac op.
Model VI-700-220	Precision Voltage & Current Source; 220 Vac op.
-HP Option	High power output, up to 200 mA output
-HI Option	200 mA output (in addition to 200 μ A-20 mA)
-HV Option	200 V output (in addition to 100 μ V -10 mV)
-RS Option	Remote sensing directly to load
-BCD Option	Parallel BCD Remote Programming
-IEEE Option	IEEE-488 Remote Programming
IEEE-488	Interface hardware (see p. 48)
IEEE-488	Interface software (see pp. 46-47, 49)
BP-511	Battery Pack, AC source, 115 V, 60 Hz, 300 W (see p. 48)

