

HIPOTRONICS

880PL

The Hipotronics 880PL is a rugged, portable, one-piece DC hipot tester from the 800PL Series, designed for high-voltage dielectric strength and insulation resistance testing up to 80 kV. The system features a full-wave voltage doubling rectifier circuit, zero-start interlock, and an internal discharge system for enhanced safety. Its analog meters provide accurate voltage readings directly from the high-voltage transformer output and current readings from the return leg, with a guard circuit ensuring no internal leakage or surface currents affect accuracy. Built into a durable enclosure with a shielded output cable, the 880PL is optimized for field-testing cable systems and electrical apparatus.

SPECIFICATIONS

General

Display	Analog meters (three-range voltmeter and four-range current meter)
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Physical

Power Supply	120 V AC or 220 V AC (option dependent), 50/60 Hz
Dimensions (W×H×D)	Control: 356 x 279 x 292 mm, HV Section: 318 x 305 x 318 mm
Weight	35.4 kg

Output Specifications

Maximum Output Voltage	80 kV DC
Maximum Output Current	5 mA
Output Protection	Surge-limiting resistors in HV output

Metering and Accuracy

Voltmeter Display Type	Analog
Voltmeter Ranges	Three ranges
Voltmeter Accuracy	± 2% of full scale
Ammeter Display Type	Analog
Ammeter Ranges	Four ranges
Ammeter Accuracy	± 2% of full scale
Guard Circuit	Yes (bypasses surface leakage currents to prevent measurement errors)

Safety and Control Features

Zero-Start Interlock	Yes (prevents high voltage activation unless control is at zero)
External Interlock Provisions	Yes

Physical and Mechanical

Construction Type	Two-piece construction
Output Cable Type	Shielded output cable

Physical Specifications

Control Unit Dimensions	356 x 279 x 292 mm (14 x 11 x 11.5 in)
High Voltage Unit Dimensions	318 x 305 x 318 mm (12.5 x 12 x 12.5 in)
Control Unit Weight	9.5 kg (21 lbs)
High Voltage Unit Weight	26 kg (57 lbs)

Electrical

Output Polarity	Negative output, positive ground
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Cabling

Output Cable Length	20 ft (6 m)
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Power

Input Power Options	120 V AC, 50/60 Hz / 220 V AC, 50/60 Hz (configuration dependent)
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TECHNOLOGY

DC Hipot Testing

APPLICATIONS

Dielectric strength and insulation testing of electrical cables, generators, motors, and apparatus

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.