Our new HypotULTRA® models provide all the tools you need to modernize your production line with best-in-class 4-in-1 test capability and a slim 2U design. We’ve added 40A AC Ground Bond test capability to HypotULTRA®’s already impressive feature list for manufacturers that aim to adopt best testing practices without sacrificing productivity. Whether you’re looking to improve traceability with on-board data storage, increase efficiency with our intuitive touch screen interface and direct barcode scanner connection, or automate with a variety of communication interfaces, HypotULTRA® was designed to take your production line to the next level.

Find the Model that Fits Your Testing Needs

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<td>7854</td>
<td>500 VA*</td>
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*Meets 200 mA short circuit requirements
INPUT SPECIFICATIONS

Voltage 100 – 120 VAC / 200 – 240 VAC ± 10% Auto Range
Frequency 50/60 Hz ± 5%
Fuse 7804/7820/7850: 6.3A, Slow Blow 250 VAC
7800/7854: 15A, Fast Blow 250 VAC

AC WITHSTAND TEST MODE (All Models)

Output Voltage Range: 0 – 5,000 VAC
Resolution: 1 VAC ± (2% of setting + 5V)
Accuracy: ± (2% of setting + 5 V)

Output Frequency 50/60 Hz ± 0.1 Hz, User Selection
Output Waveform Sine Wave, Crest Factor = 1.3 – 1.5
Output Regulation ± (1% of output + 5 V)

HI and LO-Limit Total
Real Range: 0.000 – 9,999 mA
Resolution: 0.001 mA ± (2% of setting + 2 counts)
Accuracy: ± (2% of setting + 50 μA)

DC WITHSTAND TEST MODE (Models 7800/7804/7850 & 7854 Only)

Output Voltage Range: 0 – 6000 VDC
Resolution: 1 V ± (2% of setting + 5 V)
Accuracy: ± (2% of setting + 5 V)

DC Output Ripple <4% (6KV/10 mA at Resistive Load)
HI and LO-Limit Range: 0.0000 – 0.9999 μA
Resolution: 0.0001 μA ± (2% of setting + 10 counts), Low Range is ON
Accuracy: ± (2% of setting + 10 counts)

VIN SPECIFICATIONS (All Models)

Voltage Offset 0.5 μF < 3 kV
0.75 μF < 2 kV
0.15 μF < 3 kV
0.05 μF < 2 kV
0.01 μF < 1 kV

Contaminants 1 μF for 0.1% ± 0.001 μF ± 2% for 0.1% ± 0.001 μF ± 2%

Discharge Time ≤ 50 ms for no load, < 100 ms for capacitive load

Maximum Capacitive Load DC Mode
1 μF < 1V
0.75 μF < 2V
0.15 μF < 3V
0.05 μF < 6V
0.01 μF < 1V

INSULATION RESISTANCE MODE (Models 7800/7804/7850 & 7854 Only)

Output Voltage, DC Range: 10 – 1,000 VDC
Resolution: 1 VDC ± (2% of setting + 2 counts)
Accuracy: ± (2% of setting + 5 V)

Ramp Up Timer Range: 0.1 – 999.9 sec
Ramp Down Timer Range: 1.0 – 999.9 sec
Dwell Timer Range: 0.5 – 999.9 sec (0=Continuous)
Delay Timer Range: 0.5 – 999.9 sec
Charge-LO 0.000 – 3.500 μA or Auto Set

CONTINUITY TEST MODE (All Models)

Output Current, DC 1 A for 0.000 – 1.000 Ω, 0.1 A for 1.01 – 10.00 Ω
0.01 A for 10.01 – 100 Ω, 0.001 A for 101 – 1,000 Ω
10 mA for 1001 – 10,000 Ω, 0.1 A is Max

Resistance Display Max & Min Range: 0 – 100,000 Ω
Resolution: 0.001 Ω ± (1% of setting + 3 counts)
Max-Lmt & Min

GROUNDBOND TEST MODE (Models 7804 & 7854 Only)

Output Voltage (Open Circuit Voltage) Range: 100 – 1,000 VDC
Resolution: 1 V ± (1% of setting + 3 counts)
Accuracy: ± (2% of setting + 2 counts)

Maximum Loading 100.01 – 30.00 mA (10.01 – 30.00 mA, Models 7804/7820/7850)
10 – 200 mΩ (100,000 test results)

HI and LO-Limit Range: 1.00 – 10.00 A
Resolution: 0.1 A ± (1% of setting + 3 counts)
Accuracy: ± (2% of setting + 2 counts)

Milliohm Offset 0 – 200 mΩ
Voltage Offset 0.0 – 6.0 V

GENERAL SPECIFICATIONS

Memory 2,000 steps, 2 steps per test file max
100,000 test results

Mechanical Bench or rackmount (2U height) with feet

Interfacing Standard: USB, RS-232 Optional: GPIB (IEEE-488.2), Ethernet or USB Printer

SmartGFI® 0.04 – 5.0 mA (0=OFF)
Dimensions (W x H x D) 16.92” x 3.50” x 15.75” (430 x 88.1 x 400mm)

Weight 7800: 45 lbs (20.4 kg)
7804: 41 lbs (18.6 kg)
7820: 34 lbs (15.4 kg)
7850: 35 lbs (15.9 kg)
7854: 46.3 lbs (21 kg)