# Find the HypotULTRA that's Right for You

| Models | 7820 | 7850 | 7800 | 7804 | 7854 |
|---|---|---|---|---|---|
| **Test Capabilities** | AC Hipot<br>Ground Continuity | AC Hipot<br>DC Hipot<br>Ground Continuity<br>Insulation Resistance | AC Hipot 500VA<br>DC Hipot<br>Ground Continuity<br>Insulation Resistance | AC Hipot<br>DC Hipot<br>Ground Bond<br>Ground Continuity<br>Insulation Resistance | AC Hipot 500VA<br>DC Hipot<br>Ground Bond<br>Ground Continuity<br>Insulation Resistance |
| **Test Specifications** | **AC Hipot**<br>Voltage Output = 0-5000VAC<br>Leakage Current Limits = 0.000-30.00mA<br>Output Frequency = 50/60Hz<br><br>**Ground Continuity**<br>DC Output Current = 0.001A-1ADC<br>Resistance Range = 0.000-10,000Ω | **AC Hipot**<br>Voltage Output = 0-5000VAC<br>Leakage Current Limits = 0.000-30.00mA<br>Output Frequency = 50/60Hz<br><br>**DC Hipot**<br>Voltage Output = 0-6000VDC<br>Leakage Current Limits = 0.0000-10,000µA<br>DC Ripple ≤ 4% Ripple RMS at 6 KVDC @ 20mA, Resistive Load<br><br>**Ground Continuity**<br>DC Output Current = 0.001A-1ADC<br>Resistance Range = 0.000-10,000Ω<br><br>**Insulation Resistance**<br>Voltage Output = 10-6000VDC<br>Resistance Range = 0.1MΩ-200GΩ | **AC Hipot**<br>Voltage Output = 0-5000VAC<br>Leakage Current Limits = 0.000-100.00mA<br>Output Frequency = 50/60Hz<br><br>**DC Hipot**<br>Voltage Output = 0-6000VDC<br>Leakage Current Limits = 0.0000-10,000µA<br>DC Ripple ≤ 4% Ripple RMS at 6 KVDC @ 20mA, Resistive Load<br><br>**Ground Continuity**<br>DC Output Current = 0.001A-1ADC<br>Resistance Range = 0.000-10,000Ω<br><br>**Insulation Resistance**<br>Voltage Output = 10-6000VDC<br>Resistance Range = 0.1MΩ-200GΩ | **AC Hipot**<br>Voltage Output = 0-5000VAC<br>Leakage Current Limits = 0.000-30.00mA<br>Output Frequency = 50/60Hz<br><br>**DC Hipot**<br>Voltage Output = 0-6000VDC<br>Leakage Current Limits = 0.0000-20,000µA<br>DC Ripple ≤ 4% Ripple RMS at 6 KVDC @ 20mA, Resistive Load<br><br>**Ground Continuity**<br>DC Output Current = 0.001A-1ADC<br>Resistance Range = 0.000-10,000Ω<br><br>**Insulation Resistance**<br>Voltage Output = 10-6000VDC<br>Resistance Range = 0.1MΩ-200GΩ<br><br>**Ground Bond**<br>AC Output Current = 1.00A-40.00A<br>AC Output Voltage = 3.00-8.00 V<br>Resistance Range = 0-600mΩ | **AC Hipot**<br>Voltage Output = 0-5000VAC<br>Leakage Current Limits = 0.000-100.00mA<br>Output Frequency = 50/60Hz<br><br>**DC Hipot**<br>Voltage Output = 0-6000VDC<br>Leakage Current Limits = 0.0000-20,000µA<br>DC Ripple ≤ 4% Ripple RMS at 6 KVDC @ 20mA, Resistive Load<br><br>**Ground Continuity**<br>DC Output Current = 0.001A-1ADC<br>Resistance Range = 0.000-10,000Ω<br><br>**Insulation Resistance**<br>Voltage Output = 10-6000VDC<br>Resistance Range = 0.1MΩ-200GΩ<br><br>**Ground Bond**<br>AC Output Current = 1.00A-40.00A<br>AC Output Voltage = 3.00-8.00 V<br>Resistance Range = 0-600mΩ |
| **Safety** | Safety Interlock<br>SmartGFI®<br>Security | Safety Interlock<br>SmartGFI®<br>Security | Safety Interlock<br>SmartGFI®<br>Security | Safety Interlock<br>SmartGFI®<br>Security | Safety Interlock<br>SmartGFI®<br>Security |
| **Productivity** | Arc Detection<br>FailCHEK®<br>Cal Alert®<br>Prompt and Hold<br>Ramp-HI®<br>Charge-LO®<br>Touch Screen<br>Multi-Language UI<br>Data Transfer<br>Barcode Capability<br>ProVOLT®<br>Test Memories<br>WithStand® | Arc Detection<br>FailCHEK®<br>Cal Alert®<br>Prompt and Hold<br>Ramp-HI®<br>Charge-LO®<br>Touch Screen<br>Multi-Language UI<br>Data Transfer<br>Barcode Capability<br>ProVOLT®<br>Test Memories<br>WithStand® | Arc Detection<br>FailCHEK®<br>Cal Alert®<br>Prompt and Hold<br>Ramp-HI®<br>Charge-LO®<br>Touch Screen<br>Multi-Language UI<br>Data Transfer<br>Barcode Capability<br>ProVOLT®<br>Test Memories<br>WithStand® | Arc Detection<br>FailCHEK®<br>Cal Alert®<br>Prompt and Hold<br>Ramp-HI®<br>Charge-LO®<br>Touch Screen<br>Multi-Language UI<br>Data Transfer<br>Barcode Capability<br>ProVOLT®<br>Test Memories<br>WithStand® | Arc Detection<br>FailCHEK®<br>Cal Alert®<br>Prompt and Hold<br>Ramp-HI®<br>Charge-LO®<br>Touch Screen<br>Multi-Language UI<br>Data Transfer<br>Barcode Capability<br>ProVOLT®<br>Test Memories<br>WithStand® |
| **Automation** | RS-232<br>USB<br>Ethernet<br>GPIB<br>PLC I/O | RS-232<br>USB<br>Ethernet<br>GPIB<br>PLC I/O | RS-232<br>USB<br>Ethernet<br>GPIB<br>PLC I/O | RS-232<br>USB<br>Ethernet<br>GPIB<br>PLC I/O | RS-232<br>USB<br>Ethernet<br>GPIB<br>PLC I/O |
| **Warranty** | Standard 5 Year Warranty | Standard 5 Year Warranty | Standard 5 Year Warranty | Standard 5 Year Warranty | Standard 5 Year Warranty |
| **Production Test Compliance** | IEC/UL 60601-1<br>IEC/UL 60335-1<br>IEC 60598-1<br>IEC/UL 61010-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697<br>UL544P<br>UL1563<br>IEC60990<br>IEC60065 | IEC/UL 60601-1<br>IEC/UL 60335-1<br>IEC 60598-1<br>IEC/UL 61010-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697<br>UL544P<br>UL1563<br>IEC60990<br>IEC60065 | IEC/UL 60601-1<br>IEC/UL 60335-1<br>IEC 60598-1<br>IEC/UL 61010-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697<br>UL544P<br>UL1563<br>IEC60990<br>IEC60065 | IEC/UL 60601-1<br>IEC/UL 60335-1<br>IEC 60598-1<br>IEC/UL 61010-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697<br>UL544P<br>UL1563<br>IEC60990<br>IEC60065 | IEC/UL 60601-1<br>IEC/UL 60335-1<br>IEC 60598-1<br>IEC/UL 61010-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697<br>UL544P<br>UL1563<br>IEC60990<br>IEC60065 |
| **Type Test Compliance** | IEC/UL 60601-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697<br>UL544P<br>UL1563<br>IEC60990 | IEC/UL 60601-1<br>BS EN 60204-1<br>IEC 61730-1<br>UL 1703<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08 | IEC/UL 60601-1<br>IEC/UL 60335-1<br>IEC 60598-1<br>IEC/UL 61010-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697 | IEC/UL 60601-1<br>IEC/UL 60335-1<br>IEC 60598-1<br>IEC/UL 61010-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697 | IEC/UL 60601-1<br>IEC/UL 60335-1<br>IEC 60598-1<br>IEC/UL 61010-1<br>IEC/UL 60950-1<br>UL 45A<br>IEC 61851-1<br>UL 2202<br>UL 1598/CSA C22.2 No. 250.0-08<br>BS EN 60204-1<br>UL544NP<br>UL484<br>UL923<br>UL471<br>UL867<br>UL697 |

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| | IEC60065 | | UL544P<br>UL1563<br>IEC60990<br>IEC60065 | UL544P<br>UL1563<br>IEC60990<br>IEC60065 | UL544P<br>UL1563<br>IEC60990<br>IEC60065 |
| **In the Box** | HypotULTRA Instrument<br>Interlock Connector Male<br>Input Power Cable USA<br>High Voltage Lead 5 FT<br>Return Lead 5 FT (x2)<br>Universal US<br>Nema L5-20<br>Nema L6-20<br>USB Cable<br>2U Rack Mount Bracket<br>2U Rack Mount Handle<br>Rack Mount Handle Screws<br>Fuse | HypotULTRA Instrument<br>Interlock Connector Male<br>Input Power Cable USA<br>High Voltage Lead 5 FT<br>Return Lead 5 FT (x2)<br>Universal US<br>Nema L5-20<br>Nema L6-20<br>USB Cable<br>2U Rack Mount Bracket<br>2U Rack Mount Handle<br>Rack Mount Handle Screws<br>Fuse | HypotULTRA Instrument<br>Interlock Connector Male<br>Input Power Cable USA<br>High Voltage Lead 5 FT<br>Return Lead 5 FT (x2)<br>Universal US<br>Nema L5-20<br>Nema L6-20<br>USB Cable<br>2U Rack Mount Bracket<br>2U Rack Mount Handle<br>Rack Mount Handle Screws<br>Fuse | HypotULTRA Instrument<br>Interlock Connector Male<br>Input Power Cable USA<br>High Voltage Lead 5 FT<br>40 Amp High Current Lead 5 FT<br>Return Lead 5 FT<br>Universal US<br>Nema L5-20<br>Nema L6-20<br>USB Cable<br>2U Rack Mount Bracket<br>2U Rack Mount Handle<br>Rack Mount Handle Screws<br>Fuse | HypotULTRA Instrument<br>Interlock Connector Male<br>Input Power Cable USA<br>High Voltage Lead 5 FT<br>40 Amp High Current Lead 5 FT<br>Return Lead 5 FT<br>Universal US<br>Nema L5-20<br>Nema L6-20<br>USB Cable<br>2U Rack Mount Bracket<br>2U Rack Mount Handle<br>Rack Mount Handle Screws<br>Fuse |
| **Instrument Dimensions** | 16.92 x 3.50 x 15.75 in (430 x 88.1 x 400 mm) | 16.92 x 3.50 x 15.75 in (430 x 88.1 x 400 mm) | 16.92 x 3.50 x 15.75 in (430 x 88.1 x 400 mm) | 16.92 x 3.50 x 15.75 in (430 x 88.1 x 400 mm) | 16.92 x 3.50 x 15.75 in (430 x 88.1 x 400 mm) |
| **Weight** | 34 lbs (15.4 kg) | 35 lbs (16 kg) | 45 lbs (20.4 kg) | 41 lbs (18.6 kg) | 46.3 lbs (21 kg) |
| **Shipping Dimensions & Weight (out-the-door)** | Dimension: 22 x 22 x 9 in<br>Weight: 34 lbs (15.42 kg) | Dimension: 22 x 22 x 9 in<br>Weight: 35 lbs (15.88 kg) | Dimension: 22 x 22 x 9 in<br>Weight: 45 lbs (20.41 kg) | Dimension: 22 x 22 x 9 in<br>Weight: 41 lbs (18.6 kg) | Dimension: 22 x 22 x 9 in<br>Weight: 46.3 lbs (21 kg) |