V60 Series Electrical Safety Testers



Fully Automated AC/DC Hipot, Insulation Resistance & More

Unbeatable Value Pricing

Vitrek's new V60 Series Electrical Safety Testers have just made the process of obtaining a fully automated, multi-function electrical safety tester a whole lot easier. These compact, feature-rich testers are available in three models – so you can choose the functions you need to get the job done, without having to pay for the things you don't need. And when it comes to getting the job done, the Vitrek V60 Series comes loaded with standard features that help you automate the task at hand. With the built-in RS232 interface, you can download and run test sequences, as well as, retrieve test results and data.

If you need one of these labels on your product, insist that the Vitrek label is on your Electrical Safety Tester. That's because the Vitrek V60 Series has been engineered and manufactured to meet the most demanding electrical product safety test requirements. So, whether your job is on an automated production line or in a product safety engineering lab, the V60 Series packs the performance you need to get the job done right – at a value price that won't break your budget.

Not Just a Barebones Hipot Tester

At Vitrek, when we talk about value and economy in the V60 Series, we're not talking about a low end, stripped down tester. We've built in the features you need at a price that you can't afford to pass up. Features like one touch automatic testing, 160 position test memory, built-in RS232, scanner control & PLC interfaces, digital ramp and dwell, no load setting of min/max trip currents, as well as, full line and load regulation. Couple these features with high reliability, reduced component count, VLSI surface mount construction and it becomes exceedingly clear that the V60 Series should be your next Electrical Safety Tester. Isn't it about time you put Vitrek's legendary reputation for quality and reliability to work for you?

- ●Fully Automated Testing at the Touch of a Button or via RS232 & PLC Control (GPIB optional)
- ●3 Models to choose from – Select the functions you need to get the job done
- ●Available Quick*Test*™ Test Automation Software for your PC
- ●AC Hipot to 5kV / 40mA
- ●DC Hipot to 6kV / 10mA
- ●Insulation Resistance to 10GΩ with selectable 500 & 1000 VDC Outputs
- ●Ground Continuity to 0.001Ω
- ●Two 16 Channel Scanners Optionally Available
- ●Built-in 160 Step Test Memory
- ●Programmable Ramp & Dwell Times, Output Voltages and Limits
- ●Selectable Arc Detection
- ●Front Panel Lockout Feature
- ●CE Mark Certified to EN61010
- ●Three Year Extended Warranty

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V60 Series Performance Specifications

AC Hipot

Voltage Range: 0.100kV to 5.000kV
Voltage Setting: 5 Volt Increments
Voltage Regulation: 1% + 5V
(Line & Load)
Voltage Accuracy: 1.5% of reading + 10V
Current Sourcing:
30 to 40mA (above 500V, 180sec. max.)
0 to 29.99mA (above 500V, continuous)
0 to 10mA (below 500V, continuous)
Current Limit Range: 0.10 to 40mA, 0.02mA/step
Current Accuracy: 1.5% of reading + 50µA

DC Hipot (V61, V63 only)

Voltage Range: 0.100kV to 6.000kV
Voltage Setting: 5 Volt Increments
Voltage Regulation: 1% + 5V
(Line & Load)
Voltage Accuracy: 1.5% of reading + 10V
Current Sourcing:
0 to 10mA (above 500V, continuous)
0 to 2mA (below 500V, continuous)
Current Limit Range: 0.10 to 10mA, 0.01mA/step
Current Accuracy: 1.5% of reading + 50µA

Insulation Resistance (V63 only)

DC Output Voltage: 50V / 100V 500V / 1000V
Resistance Accuracy 50V / 100V:
1 to 50MΩ: 5% of reading
51 to 200MΩ: 10% of reading
201 to 1990MΩ: 20% of reading
Resistance Accuracy 500V / 1000V:
1 to 500MΩ: 5% of reading
501 to 2000MΩ: 10% of reading
2001 to 9990MΩ: 20% of reading

Continuity Measurement

Test Current: 100mA
Resistance Accuracy: ±0.75Ω
Resistance Range: 0.1Ω to 1.2Ω

General

Test Database: 10 Test Sequences with up to 16 steps per test sequence
Front Panel Lockout: Prevents database edit while in lockout mode
ARC Detect: 40 level (1 to 40mA)
Serial Port: 9600 Baud, fully bi-directional RS232 interface with PC cable included
GPIB: Option GP-V60, IEEE-488 interface
PLC Interface: 9-pin D-sub connector with outputs of Testing, Pass, Fail and inputs of Start, Reset. Output isolation is 400V with 130mA continuous load current
Scanner Interface: Control port for V16 and V17 HV Scanners
Timer Accuracy: 0.25% ± 50mS
Power Source: AC 100V, 120V, 220V, 230V at ± 10% 50/60Hz
Operating Environment: Indoor use, Altitude up to 6500ft (2000m), Installation Category II, Pollution Degree 2
Operating Temperature: 0ºC to 40ºC, 80% RH max
Storage Temperature: -10ºC to 70ºC, 70% RH max
Dimensions: 17.6"L x 13"W x 5.9"H
446L x 330W x 149H mm
Weight: 30 lbs (14kg) net, 34 lbs (16kg) ship
Accessories: NIST certification, TL-20-60 Alligator Test Leads, serial interface cable, instruction manual and power cord
Accuracy: Stated specifications apply for 1 year at 23ºC ± 5ºC
Calibration: ANSI/NCSL Z540 Certificate of Calibration, with data, traceable to NIST provided
Compliance: CE mark certified to EN61010 and EMC directive EN50081-1 & EN50082-2
Warranty: 3-year extended warranty with registration and annual factory calibration, 1 year parts and labor standard



The V60 Series rear panel layout includes three standard remote interfaces: A fully programmable RS232 port, a PLC Interface port and a High Voltage Scanner control port. Available options include GPIB and rear terminal outputs.

QuickTest™ Software

Option QT-60: Test automation software. Easy to load graphical test sequence development and operating environment. Provides time/date, operator, test parameters, test results and readings for review, printout or export to database program

Ordering Information

V60 AC Electrical Safety Tester
V61 AC/DC Electrical Safety Tester
V63 AC/DC/IR Electrical Safety Tester
QT-60 QuickTest™ Software (Serial and GPIB)
GP-V60 GPIB Interface
GP-1 1 Meter GPIB Cable
GP-2 2 Meter GPIB Cable
RPO-60 Rear Panel Output
TL-115-60 Nema 5-15 Test Adaptor
TL-10-60 High Voltage Probe Test Lead Set
TL-20-60 High Voltage Alligator Lead Set
TL-TP-60 HV Test Pistol Probe Set
TL-IEC-60 IEC Socket Lead Set
V16 16 Channel HV Scanner
V17 8 Channel HV/8 Ch. High Current Scanner
OM-60 Additional Operator's Manual

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