

Electrical Safety Tester

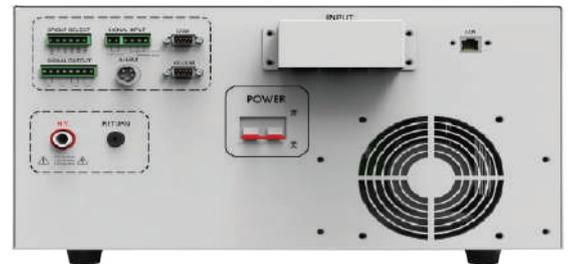
High-power Withstanding Voltage/ Insulation Resistance Tester TES-9630 Series

Product description:

TES-9631/32/33/34/35/36 is AC/DC withstand voltage and insulation resistance analyzer integrates AC withstand voltage, DC withstand voltage, insulation resistance, arc detection, open circuit detection and other functions. It is accurate, efficient, reliable and stable, has rich interfaces and touch screen operation, meeting the testing needs of various electronic and electrical devices. The series of products are small in size, light in weight, making them ideal for desktop testing, system integration and other working conditions.



TES-9630 series
(Front panel)



TES-9630 series
(Rear panel)

Features

- The whole machine adopts high-frequency power electronic conversion topology, with stable output and extremely light weight
- Insulation resistance measurement range 200GΩ
- Built-in fast rise + slow rise test function in accordance with IEC60601/GB9706.1 standard requirements
- Built-in 100 test groups, each group supports 50 steps;- Open and short circuit detection function: supports OSC AC output detection mode
- Arc detection function: built-in arc detection function based on waveform recognition, internationally unique, anti-interference, high accuracy
- User authority setting: built-in password function to distinguish different levels of users
- External interface: standard RS232, PLC/HANDLER and other interfaces
- Anti-electric shock protection function: built-in leakage protection function, response speed uS level
- Quick test: test step delay <50mS

Specifications

Model	TES-9631	TES-9632	TES-9633	TES-9634	TES-9635
AC withstanding Voltage Test (ACW function)					
Rated Output Capacity	500VA	1000VA	1500VA	2000VA	2500VA
AC Voltage Output Upper Limit	5000V				
AC Voltage Output Lower Limit	50V				
AC Voltage Output/Measurement	Range: (50 ~ 5000)V, resolution: 1V, Accuracy : ±(1%*set value+5V)				
Output Frequency	50Hz / 60Hz, accuracy: ±0.1Hz				
Output Regulation	±(1%*set value +5V), no load to full load				
Waveform Distortion	Sine wave, <2% (resistive load)				
AC Current Measurement Upper Limit	100mA	200mA	300mA	400mA	500mA
AC Current Measurement Accuracy	Range: 0.010 ~ 3.500, 3.00 ~ Imax, resolution: 0.001/0.01mA, Accuracy : ±(1%*reading value+5 words)				
Ramp-up Time	Range: 0, (0.1 ~ 999.9)s, resolution: 0.1s				
Duration Time	Range: 0, (0.5 ~ 999.9)s, resolution: 0.1s, Accuracy : ±(1% *set value+1 word)				
Ramp-down Time	Range: 0, (1.0 ~ 999.9)s, resolution: 0.1s				
Arc Detection	1 ~ 9 (9 is the most sensitive), 0 means arc off function				
Current Compensation	0.000 ~ Imax, total current + compensation current <Imax, automatic				
DC withstanding voltage Test (DCW function)					
DC Voltage Output Upper Limit	6000V				
DC Voltage Output Lower Limit	50V				
DC Voltage Output	Range: (50 ~ 6000) VDC, resolution: 1V, Accuracy : ±(1%*set value + 5V)				
DC Voltage Measurement	Range: (0.050 ~ 6.000)kV, Resolution: 1V, Accuracy : ±(1%*set value + 5digits)				
Output Ripple	<2% (6kV/1mA resistive load)				
Output Regulation	±(1%*set value + 2V), no load to full load				
DC Current Measurement Upper Limit	20mA				

Specifications

Model	TES-9631	TES-9632	TES-9633	TES-9634	TES-9635
DC Current Measurement	Range: 0.0~350.0/300~3500μA/3.00~20.00 mA, Resolution: 0.1/1μA/0.01mA, Accuracy: ±(1%×reading value + 5 digits)				
Ramp-up Time	Range: 0, (0.1 ~ 999.9)s, 0 is off				
Duration Time	Range: 0, (0.5 ~ 999.9)s, 0 is infinite, Resolution: 0.1s, Accuracy : ±1% ×Set value + 1 word				
Ramp-down Time	Range: 0, (1.0 ~ 999.9)s, 0 is off				
Arc Detection	1 ~ 9 (9 is the most sensitive), 0 means arc off function				
Current Compensation	(0 ~ 200.0) μA, automatic				
Discharge Time	≤200ms				
Maximum Capacitive Load	1μF<1kV, 0.75μF<2kV, 0.5μF<3kV, 0.08μF<4kV, 0.04μF<5kV				
Insulation Resistance Test (IR function)					
IR Voltage Upper Limit Umax	2500V				
IR Voltage Lower Limit Umin	50V				
DC Voltage Output	Range: (20 ~ 2500) VDC, Resolution: 1V, Accuracy : ±(1%×set value+5V)				
DC Voltage Measurement	Range: (20 ~ 2500) VDC, Resolution: 1V, Accuracy : ±(1%×reading value+5V)				
Resistance Upper/Lower Limit Setting	Range: 1.0MΩ ~ 200GΩ, with an upper limit including no upper limit setting				
Insulation resistance measurement	Range: 0.100MΩ ~ 200GΩ, resolution: 0.001MΩ /0.01MΩ /0.1MΩ /0.001GΩ /0.01GΩ/0.1GΩ				
	Accuracy : 100V ~ 499V: 0.100MΩ ~ 2.000GΩ, ±(5%×reading value+2 digits)				
	500V ~ Umax: 0.100MΩ ~ 999.9MΩ, ±(2%×reading value+2 digits)				
	1.000GΩ ~ 9.999GΩ: ±(5%×reading value+2 digits)				
Ramp-up Time	Range: 0, (0.1 ~ 999.9)s, 0 is off,				
Duration Time	Range: 0, (0.5~999.9)s, 0 is infinite, resolution: 0.1s, Accuracy : ± 1% × set value + 1 word				
Ramp-Down Time	Range: 0, (1.0 ~ 999.9)s, 0 is off				
General System Specification					
Interface	Standard : RS-232, Optional : RS-485, USB, LAN and Analog output				
Installation Location	Indoor, altitude not higher than 2000meters				
Usage Environment	Temperature	0 ~ 40℃			
	Humidity	40℃, (20% ~ 90%RH)			
Storage Environment	Temperature	-10℃ ~ 50℃			
	Humidity	50℃, 90%RH, 24h			
Input Power	AC 220V ±10%, 50Hz±5%, 10A				
Power Consumption	No Load	Less than 50W			
	Full Load	Less than 650W	Less than 1050W	Less than 1950W	Less than 2250W
Dimension	280(W)x 120(H)x 470(D)		426(W)x223(H)x600(D)		
Weight	About 26kg	About 26kg	About 35kg	About 40kg	About 45kg

Ordering Information

TES-9631 : Withstanding Voltage Test/Insulation Resistance Tester

ACW : 500VA/5kV/100mA with 1% accuracy

DCW : 120VA/6kV/20mA

IR : 2.5kV/200GΩ

TES-9632 : Withstanding Voltage Test/Insulation Resistance Tester

ACW : 1000VA/5kV/200mA with 1% accuracy

DCW : 120VA/6kV/20mA

IR : 2.5kV/200GΩ

TES-9633 : Withstanding Voltage Test/Insulation Resistance Tester

ACW : 1500VA/5kV/300mA with 1% accuracy

DCW : 120VA/6kV/20mA

IR : 2.5kV/200GΩ

TES-9634 : Withstanding Voltage Test/Insulation Resistance Tester

ACW : 2000VA/5kV/400mA with 1% accuracy

DCW : 120VA/6kV/20mA

IR : 2.5kV/200GΩ

TES-9634 : Withstanding Voltage Test/Insulation Resistance Tester

ACW : 2500VA/5kV/500mA with 1% accuracy

DCW : 120VA/6kV/20mA

IR : 2.5kV/200GΩ

TES-9636 : Withstanding Voltage Test/Insulation Resistance Tester

ACW : 3000VA/5kV/1000mA with 1% accuracy

DCW : 120VA/6kV/20mA

IR : 2.5kV/200GΩ

Standard Accessories :

- User Manual
- Test leads set
- Power cord
- Test report

Safety Tester
 AC Power Supply
 DC Power Supply
 Power Analyzer
 Electronic Load
 Resistance Tester
 LCR Meter
 Temperature Tester
 Environmental Tester
 General Tester