

7470 Series High Withstand Voltage Tester



The 7470 series equips an ultra-high output voltage of 20kV for high impedance component or special purpose hipot testing requirements. With high resolution up to 1 μ A, the 7400 is the necessity for the quality demand user and the best tool for R&D design validation.

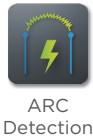
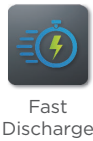
Key Highlight

- Unmatched quality assurance with ARC detection capability eliminates poor gap spacing that can cause dielectric breakdowns
- PLC control function for remote operations
- Ultra-high output voltage of 20kV for special purpose hipot tests
- Uninterrupted continuous voltage adjustments during various ACW step tests.
- Built-in GPIB or USB & RS-232 interface to perform automated testing while improving test efficiency.

Available Interface



Safety and Productivity Features



	AC Withstand	DC Withstand
7470	10kV	-
7472	-	12kV
7473	20kV	-
7474	-	20kV

7470 Series Specifications				
MODEL	7470	7473	7472	7474
INPUT				
Voltage (AC)	115/230V \pm 15% Auto Range			
Frequency	50/60Hz \pm 5%			
AC WITHSTAND VOLTAGE				
Output Rating (AC)	10kV/20mA	20kV/10mA		
Output Voltage Range	0-10kV	0-20kV		
Voltage Resolution	10V			
Voltage Accuracy	\pm (1.5% of setting + 10V)	\pm (1.5% of setting + 20V)		
Current Measurement Range	0.000-20.00mA	0.000-10.00mA		
Current Resolution	0.001/0.01mA			
Current Accuracy	0.000-3.500mA	\pm (2% of reading + 3 counts)		
	3.00-20.00mA			
Output Frequency	50/60Hz \pm 5%			
Ramp Up Timer	0.3-999.9s			
Ramp Down Timer	0.1-999.9s			
Dwell Timer ¹	0, 0.1-999.9 unit (0 = continuous) (unit :Hour, Minute or Second)			
Timer Resolution	0.1, unit: s, min or hr			
Timer Accuracy	\pm (0.1% of setting + 0.05s)			
Output Waveform	Sine wave ,THD. < 3% at 2k-20kV (Resistive Load), Crest Factor = 1.3-1.5			
Output Regulation	\pm (1% of output + 10V), From no load to full load			
Current Offset	0-2.000mA or Auto Set			
Arc Detection ²	The range is from 1-9 (9 is the most sensitive)			
DC WITHSTAND VOLTAGE				
Output Rating (DC)			12kV/10mA	20kV/5mA
Output Voltage Range			0-12kV	0-20kV
Voltage Resolution			10V	-
Voltage Accuracy			\pm (1.5% of setting + 10V)	\pm (1.5% of setting + 20V)
Current Measurement Range			0-9999 μ A	0-5000 μ A
Current Resolution			0.1/1 μ A	
Current Accuracy	0-350.0 μ A	\pm (2% of reading + 3 counts)		
	300-3500 μ A			
	3000-9999 μ A			
Output Ripple			< 5% at Resistive Load	< 5% at Resistive Load
Ramp Up Timer			0.4-999.9s	
Ramp Down Timer			0, 1.0-999.9s	
Dwell Timer ³			0, 0.1-999.9 unit (0 = continuous) (unit :Hour, Minute or Second)	
Timer Resolution			0.1, unit: s, min or hr	
Timer Accuracy			\pm (0.1% of setting+ 0.05s)	
Ramp High Current			ON/OFF	

MODEL	7470	7473	7472	7474
Charge Low Current			0.0-350.0µA	
Discharge Timer			≤ 200ms	
Maximum Capacitive Load	-	-	1.5µF < 2kV, 0.28µF < 4kV, 0.18µF < 6kV, 0.15µF < 8kV, 0.15µF < 10kV, 0.12µF < 12kV, 0.12µF < 14kV	
Current Offset			0.0-200.0µA or Auto Set	
Arc Detection			The range is from 1-9 (9 is the most sensitive)	

GENERAL	
Remote Input Signal	Test, Reset, Memory 1, 2, 3, Interlock
Remote Output Signal	Pass, Fail, Processing
Cycle Test	0-9999 Times, (0 = continuous)
Memory	50 memories
Display	20 x 2 LCD with back light
Interface ⁴	Standard: USB & RS232, Optional: GPIB
Op./Non-Op. Temp./Humidity	0 to 40°C/-40 to 75°C/20 to 80%RH
Dimension (W × H × D), mm	430 x 133 x 400
Weight	24kg 23kg 24kg 23kg

INBOX ACCESSORIES	
Power Cable (10A)*1; Fuse*1; 1101 Hipot Output Lead - Alligator Clip*1; 1142 Hipot Output Lead - Alligator Clip (20KV)*1 for 7473 & 7474; 1143 Hipot Output Lead - Alligator Clip (12KV)*1 for 7470 & 7472; 1144 Hipot Return Lead - Alligator Clip (20KV)*1; 1224 USB Cable*1; 1505 Interlock Disable Key*1; Core*5 for 7473	

*Product specifications are subject to change without notice

1. When unit is second, dwell time is from 0.3-999.9s for ACW function.
2. For 7470: If output voltage < 7.00kV, the range is 1-9. If it is ≥ 7.00kV, the range is 1-8.
For 7472: If output voltage < 15.00kV, the range is 1-9. If it is ≥ 15.00kV, the range is 1-7.
3. When unit is second, dwell time is from 0.4-999.9s for DCW function.
4. Only one interface can be selected among RS232 & USB & GPIB interface card.

Models

- 7470 AC Withstand Voltage Tester (10kV)
- 7472 DC Withstand Voltage Tester (12kV)
- 7473 AC Withstand Voltage Tester (20kV)
- 7474 DC Withstand Voltage Tester (20kV)

Options

- OPT.109 Replace RS232 Interface by GPIB Interface
- OPT.7011 Continuous Output during step link for 7470 & 7473
- OPT.7012 Continuous Output during step link for 7472 & 7474