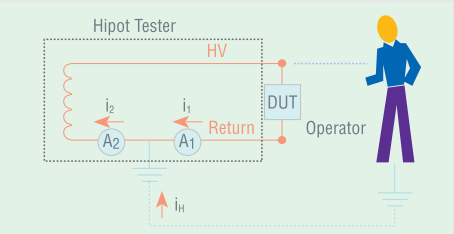
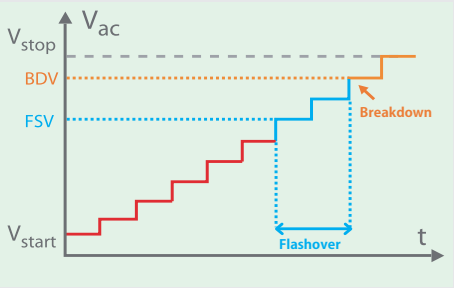
MODEL 19056
19057 SERIES

KEY FEATURES

- 10kV AC & 20kV DC withstand voltage test
- 0.1MΩ~50GΩ insulation resistance test
- Breakdown Voltage test (BDV)
- Flashover Detection (ARC)
- High Voltage Contact Check (HVCC)
- High Frequency Contact Check (HFCC)
- Open Short Check (OSC)
- Ground Fault Interrupt (GFI) for human protection circuit
- Fast charge/discharge function
- Programmable output & test limit
- Standard USB, RS232 & HANDLER interfaces
- Optional GPIB interface
- CE Mark



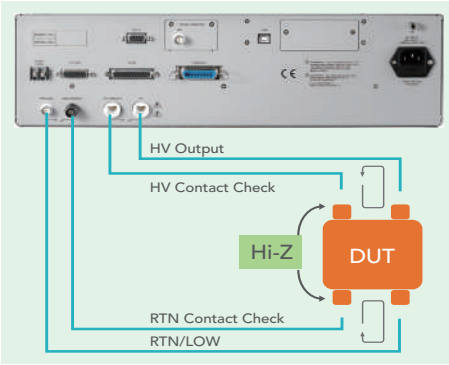
Ground Fault Interrupt (GFI)



Discharge Level Analysis (DLA)

HIPOT ANALYZER
MODEL 19056/19057 SERIES

The Chroma 19056/19057 Hipot Analyzer is specifically designed for testing and analyzing ultra-high withstand voltage. This series of models includes 10kVac/12kVdc/20kVdc with maximum AC20mA/DC10mA output capable of performing AC/DC withstand voltage and insulation resistance tests as well as contact check for production line testing. In addition to the patented Open Short Check (OSC), High Voltage Contact Check is added to test the components with high insulation capability for high voltage output to improve the testing reliability and efficiency.



The 19056/19057 Series with Ground Fault Interrupt (GFI) is designed to protect operator's safety when abnormal ground current (A2-A1) occurs.

The Hipot Analyzer mainly provides high withstand voltage test and analysis for optical couplers, HV relays, HV switches, and PV modules components, which have better insulation capability.

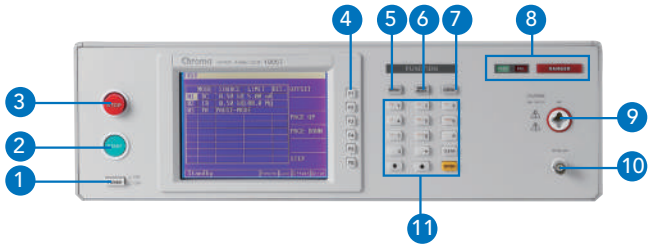
Charge and discharge are required for capacitive components when conducting the DC withstand voltage test. The Hipot Analyzers have fast charging functions that can increase the production test efficiency.

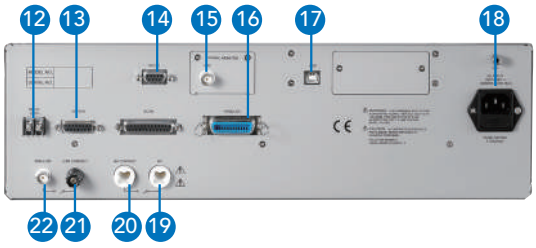
The entire series includes a Flashover (ARC) detection function allowing discharge level analysis through the start voltage, end voltage, and number of steps and time. Discharge Level Analysis (DLA) mode provides detection of Flashover (ARC) and Breakdown (high limit). When a defect is detected in the test, the 19056/19057 will show the withstanding voltage to indicate the Flashover Start Voltage (FSV) or Breakdown Voltage (BDV) respectively. In addition, external Oscilloscopes can be used with the unit to check the waveform at the same time during analysis. Analysis of the test results the 19056/19057 Hipot Analyzer provides allows R&D engineers the knowledge to increase quality and performance of insulation components.

USB RS-232 HANDLER GPIB CE

Chroma

PANEL DESCRIPTION





1. Power Switch
2. Start Key
3. Stop Key
4. Function Key
5. Menu Key
6. Main Index Key
7. Local Key
8. LED Display
9. HV Output
10. RTN/LOW
11. Entry Keys
12. Interlock
13. GPIB Interface (option)
14. RS232 Interface
15. ARC Signal Output
16. HANDLER Interface
17. USB Interface
18. Power Inlet
19. HV
20. HV CONTACT
21. LOW CONTACT
22. RTN/LOW

SPECIFICATIONS

Model		19056	19057	19057-20
Mode		ACW	DCW	
Withstanding Voltage Test				
Output Voltage		AC: 0.1~10kV	DC: 0.1~12kV	DC : 0.1 ~ 20kV
Load Regulation		± (1% of output + 10V), Rated load		
Voltage Accuracy		± (1% of setting + 0.1% of full scale)		± (1.5% of reading + 0.1% of full scale)
Voltage Regulation		± (1% of output + 10V), Rated load		
Cutoff Current		0.001~20mA	0.0001~10mA	0.0001~5 mA
Current Accuracy		0.100mA~2.999mA : ±(1% of reading + 0.3% of full range) 3.00mA~20.00mA : ±(1.5% of reading + 0.3% of full range)	±(1% of reading + 0.5% of full range)	
Current Resolution		AC : 1μA	DC : 0.1μA	
Output Frequency		50Hz / 60Hz	-	
Test/Ramp/Fall/Dwell Time		0.3 ~ 999 sec., continue / 0.1 ~ 999 sec., off / 0.1 ~ 999 sec., off / 0.1 ~ 999 sec., off		
Waveform		Sine wave	-	
Insulation Resistance Test				
Output Voltage		-	DC : 0.1 ~ 5kV	
Voltage Resolution		-	2V	
Voltage Accuracy		-	1% of setting + 0.5% of full scale	1.5% of setting + 0.5% of full scale
IR Range		-	0.1MΩ ~ 50GΩ	
Resistance Resolution		-	0.1MΩ	
Resistance Accuracy	≧ 0.5kV	-	1MΩ ~ 1GΩ : ± 3% of reading + 0.5% of full range 1GΩ ~ 10GΩ : ± 5% of reading + 1% of full range 10GΩ ~ 50GΩ : ± 10% of reading + 1% of full range	
	<0.5kV	-	1MΩ ~ 1GΩ : ± 5% of reading + (0.5*500/Vs)% of full scale	
Flashover Detection				
Setting Mode		Programmable setting		
Detection Current		AC : 1mA~20mA	DC : 1mA~10mA	
Contact Check Function				
Contact Check		OSC (open/short check) HVCC(High Voltage contact check) HFCC (High Frequency Contact Check)	HVCC(High Voltage contact check) HFCC (High Frequency Contact Check)	HVCC(High Voltage contact check) HFCC (High Frequency Contact Check)
Electrical Hazard Protection Function				
Ground Fault Interrupt		0.5mA±0.25mA AC, ON/OFF	-	-
Key Lock		Yes (password control)		
Interlock		YES		
GO/NG Judgment Window				
Indication, Alarm		GO : Short sound, Green LED; NG : Long sound, Red LED		
Memory Storage		100 sets ,max. 50 steps per set		
Interface		Standard-RS232, Handler interface ,USB , SCAN Optional - GPIB interface		
General				
Operation Environment		Temperature: 0℃ ~ 45℃ ; Humidity: 15% to 95% R.H@ ≦ 40℃		
Power Consumption		600VA		
Power Requirements		100~240Vac, 47~63Hz		
Dimension (HxWxD)		130x430x500 mm/5.12x16.93x19.69 inch		
Weight		28kg / 61.7 lbs		

All specifications are subject to change without notice

ORDERING INFORMATION

19056 : Hipot Analyzer AC10kV
19057 : Hipot Analyzer DC12kV/IR
19057-20 : Hipot Analyzer DC20kV/IR
A190355 : 19" rack mounting kit
A190356 : GPIB interface
A190519 : HV contact check box
A190702 : 40kV high voltage testing rod
A190708 : ARC (Flashover) verification fixture

Get more information by downloading Chroma ATE Solutions APP

iOS

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Search Keyword
19056 or 19057

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