



## FUNCTIONS

- Hi-Pot
  - AC 5kV/100mA
  - DC 6kV/20mA
- Insulation
  - 5kVmax
  - 1MΩ~50GΩ

## KEY FEATURES

- 500VA output rating
- Floating output complies with EN50191
- Corona Discharge Detection (CDD, 19055-C)
- Flashover Detection
- Discharge Level Analysis (DLA)
- Open Short Check (OSC)
- High Frequency Contact Check (HFCC)
- Ground Fault Interrupt
- Standard RS-232 interface
- Option GPIB & HANDLER interface
- Key lock when fail
- Programmable voltage & test limit
- CE Mark
- Support A190301 8HV Scanning Box

## APPLICATIONS

**Motor** : The 19055 Series Hipot Analyzers with 500VA output rating can be used to test and analyze the withstand voltage of high power and leakage current for the products like motor stators and rotors with high parasitic capacitance. Corona detection can be used for turn-to-turn or turn-to-ground test to avoid winding insulation failure from corona discharge.

**Transformer** : When using a power transformer under the normal voltage, a primary side corona discharge could cause the adjacent components to be damaged if occurred. Thus, the function of Corona Discharge Detection (CDD) of 19055-C can be used to detect if there is any corona discharge occurred to improve the product quality.

**High Voltage Capacitor, Photocoupler & Insulation Material** : If any gaps, voids or impurities appeared when doing molding in the manufacturing process, the insulation capability may be affected. The Corona Discharge Detection (CDD) equipped by 19055-C is able to detect if there is any corona discharge occurred to enhance the product quality.

Chroma 19055 Series Hipot Analyzers are designed for hipot tests and analysis. The tests of AC/DC/IR can be programmed in 5kV/100mA with 500VA output rating which complies with the EN50191 requirements. (Please refer to the application notes for more detail information.)

The 19055-C has not only the AC/DC/IR tests but also a new measurement technology - Corona Discharge Detection (CDD) that can detect the following via the Discharge Level Analysis (DLA).

- Corona discharge Start Voltage (CSV)
- Flashover Start Voltage (FSV)
- BreakDown Voltage (BDV)



As to the Contact Check during Hipot test, Chroma 19055 Series is equipped with a new function of High Frequency Contact Check (HFCC) besides the Open Short Check (OSC). By conducting the Contact Check during Hipot test, it can increase the test reliability and efficiency significantly.

For convenience use, Chroma 19055 has large LCD screen for operation and judgment. In addition, the GFI human protection circuit and Floating safety output prevent the operators from electrical hazard.



Chroma Discharge in motor

## ORDERING INFORMATION

- 19055** : Hipot Analyzer AC/DC/IR
- 19055-C** : Hipot Analyzer AC/DC/IR (with Corona discharge detection)
- A190355** : 19" Rack Mounting Kit
- A190356** : GPIB Interface
- A190708** : ARC (Flashover) Verification Fixture

SPECIFICATIONS		19055/19055-C
<b>Model</b>		<b>19055/19055-C</b>
<b>Mode</b>		<b>ACV / DCV / IR</b>
<b>Withstanding Voltage Test</b>		
Output Voltage		AC : 0.05 ~ 5KV, DC : 0.05 ~ 6KV
Load Regulation		1% of setting + 0.5% full range
Voltage Accuracy		1% of setting + 0.5% full range
Voltage Resolution		2V
Cutoff Current		AC:100mA;DC:20mA
Current Accuracy		1% of setting + 0.5% 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
<b>Insulation Resistance Test</b>		
Output Voltage		DC : 0.05 ~ 5kV
Voltage Resolution		2V
Voltage Accuracy		1% of setting + 0.5% full range
IR Range		1MΩ ~ 50GΩ
Resistance Resolution		0.1MΩ
Resistance Accuracy	>1kV	1MΩ ~ 1GΩ : ± 3% of reading + 0.1% of full range, 1GΩ ~ 10GΩ : ± 7% of reading + 2% of full range, 10GΩ ~ 50GΩ : ± 10% of reading + 1% of full range,
	≥ 500V ≤ 1kV	0.1MΩ ~ 1GΩ : ± 3% of reading + 0.1% of full range, 1GΩ ~ 10GΩ : ± 7% of reading + 2% of full range, 10GΩ ~ 50GΩ : ± 10% of reading + 1% of full range,
	<500V	0.1MΩ ~ 1GΩ : ± 3% of reading + (0.2*500/Vs)% full range
<b>Flashover Detection</b>		
Setting Mode		Programmable setting
Detection Current		AC: 20mA;DC: 10mA
<b>Contact Check Function</b>		
HFCC		High frequency contact check
OSC (open/short check)		600Hz, 0.1s
<b>Electrical Hazard Protection Function</b>		
Floating output design		Leakage current <3 mA
Fast Output Cut-off		0.4ms after NG happen
Ground Fault Interrupt		0.5mA ± 0.25mA AC, ON/OFF
Panel Operation Lock		Present password
Interlock		YES
<b>GO/NG Judgment Window</b>		
Indication, Alarm		GO : Short sound, Green LED ; NG : Long sound, Red LED
Data Hold		Least tests data memories
Memory Storage		100 sets, max. 50 steps per set
<b>Interface</b>		
Interface		RS-232, Handler interface (Standard), GPIB interface (Optional).
<b>General</b>		
Operation Environment		Temperature: 0°C ~ 45°C, Humidity: 15% to 95% R.H@ ≤ 40°C
Power Consumption		500VA
Power Requirements		90~132Vac or 198~264Vac, 47~66Hz
Weight		Approx. 20kg

All specifications are subject to change without notice.