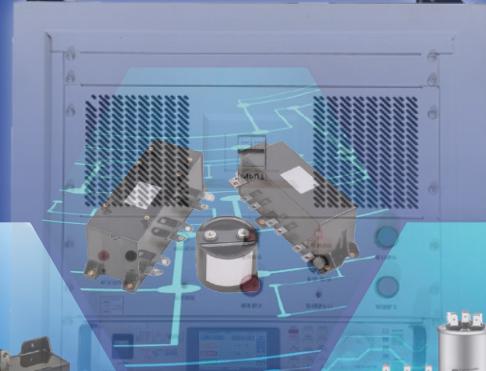




Hangyu Power System (Shanghai) Co., Ltd.

HY-CDSSU Series

Capacitor Charge And Discharge Special Power Source
Military Quality Power Supply Expert



HY-CDSSU Series Capacitor Charge And Discharge Special Power Source



Product Features



Application Introduction

HY-CDSSU series capacitor charge and discharge special power source, it is used in capacitor manufacturers, capacitor use units and capacitor detection and measurement Unit, can be DV/DT,DI/DT test.

The method is to charge the measured capacitor first and measure the DV/DT value during the rapid discharge of the capacitor. The signal voltage, frequency and discharge resistance can be set according to the needs, the signal is applied to both ends of the measured capacitor, the test period is set, and the capacitor is continuously tested. During the test, the temperature rise, capacity and loss of the capacitor are constantly monitored and recorded. Finally, according to the temperature rise of the capacitor and the change of capacity and loss, whether the capacitor meets the requirements is judged.

Using this method to detect, whether it is the characteristics of the material (polarization characteristics), or the difference in structural design (plate resistance) and the difference in loss, it can be directly reflected by the temperature rise of the capacitor and the change in capacity loss.



HY-CDSSU series capacitor charge and discharge special power source, is a programmable constant voltage constant current source, is dedicated to DV/DT,DI/DT, charge and discharge related test equipment, the specific parameters are as follows:

- Input voltage: 220VAC50Hz
- Output voltage: 0-2000Vrms Continuously adjustable (Custom accepted)
- Output capacity: 200VA-10kVA
- Charge and discharge test current: 0~3000A (Custom accepted)
- The actual voltage on the product under test needs to be detected and displayed (at the frequency of 1kHz, the average voltage of every 10 charges is taken and displayed; The machine trigger time is about 300ms) to determine whether the product is fully charged; If there is no voltage, the alarm signal should be output
- Trigger mode can be switched manually and automatically; How long it is triggered and how long the device should work continuously
- Charge and discharge frequency: 0.5k/1kHz (Accept customization)
- Discharge resistance: 0Ω
- Test capacitor capacity: 1nF~110uF (Custom accepted)
- Multiple protection function OVP/OCP/OTP
- 19 inch standard rack size
- Touch screen operation & digital key input
- Multi-stage adjustment knob
- The power input is controlled by circuit breaker, which is more secure
- Output the ON/OFF button
- Fan intelligent speed control design, reduce noise
- Supports Modbus protocol
- Standard interface: RS-485&RS-232
- Choose buy interface: LAN&CAN

GPIB

Analog quantity programming and monitoring
(Isolation type)

HY-CDSSU Series Technical Parameters

Product Model Naming Rules

Product Series	Output Voltage	Output Current
HY-CDSSU	400	- 1650

Product model: HY-CDSSU 400-1650

The model information is: output voltage 0-400V, output current 0-1650A

HY-CDSSU Series Selection

Models	Charge Discharge Voltage	Charge Discharge Current
HY-CDSSU 400-1650	400V	1650A
HY-CDSSU 1000-600	1000V	600A
HY-CDSSU 1000-1000	1000V	1000A
HY-CDSSU 1200-1500	1200V	1500A
HY-CDSSU 2000-1500	2000V	1500A

In the selection table, special specifications outside the voltage/frequency/output capacity range are accepted for customization

When the equipment runs continuously for more than 30 minutes at the specified operating temperature, all technical indicators can be guaranteed

Real Test Site

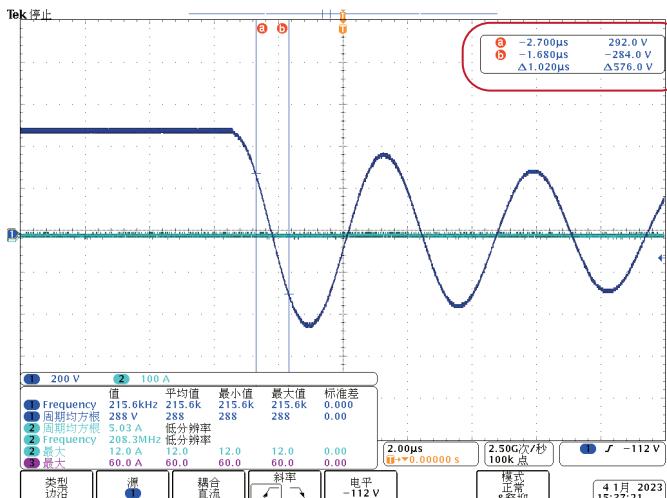
Use this device with a maximum voltage of 1000V and a maximum current of 1000A for actual testing, and connect the two ends of the thin film capacitor.

CDSSU

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HY-CDSSU Series Technical Parameters



Voltage drop time

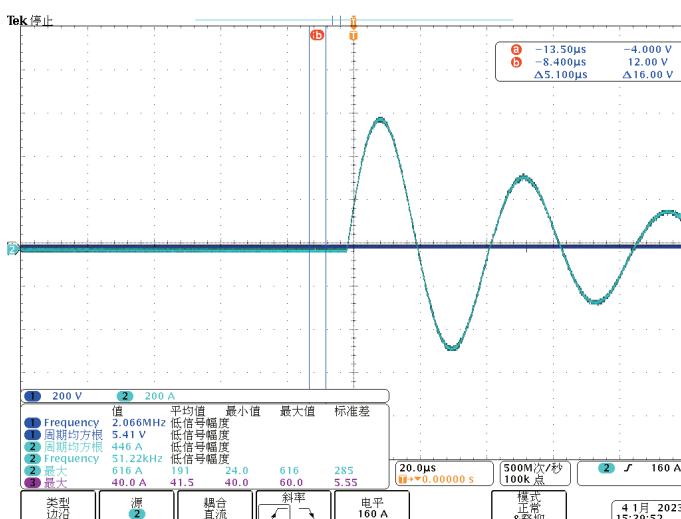
The measured waveform of voltage DV/DT is shown in the figure above.

First charge the capacitor under test,

And then discharge it quickly,

Voltage drop speed <10μs,

Other parameters are shown in the figure.



The measured waveform of current charge and discharge is shown in the figure on the left

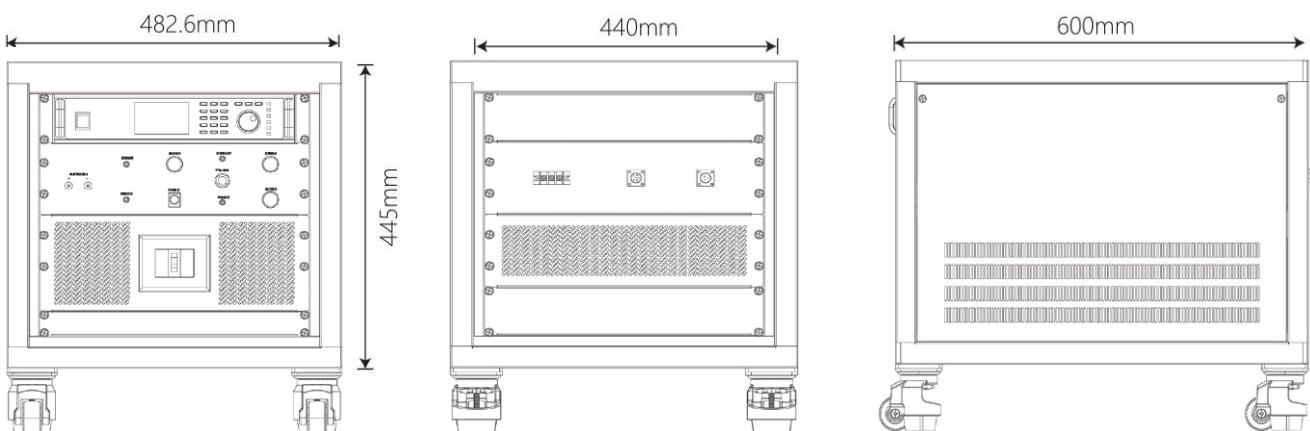
Hangyu Power Capacitor charge and discharge test special solution, meet the requirements of capacitor DI/DT test, intelligent and convenient operation, high efficiency, greatly saving the test cost, for the improvement of capacitor quality escort.

CDSSU

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External View And Display

10U 440(W)*600(D)*445(H)mm





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*Hangyu Power System, 2024

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All technical data and instructions are based on the actual product

If there is any change, Hangyu Power has the final interpretation right

Authorized distributor:

