



ACS Material Equipment Series

High-Voltage Low-Frequency Digital Plasma Power Supply

(CTP-2000KL)

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Revision: 061626

I. Product Overview

Main Unit



Photo of a CTP-2000KL Equipment

High-Voltage Low-Frequency Digital Plasma Power Supply is a DBD (Dielectric Barrier Discharge) treatment device, designed to support various types of DBD discharge electrodes. The high-voltage electrode of the DBD electrode to be used should be connected to the high-voltage interface of this equipment, while the low-voltage electrode should be connected to the low-voltage interface. After turning on the power via the circuit breaker, the voltage, current, power, frequency, and other parameters can be adjusted via the touchscreen to generate an ionized layer in the electrode. The external interface allows for voltage waveform monitoring, instantaneous current detection, and integrated current detection.

II. Product Components

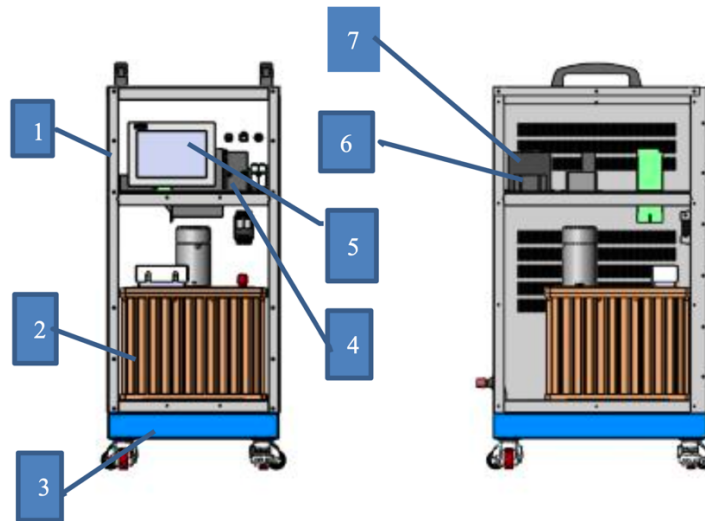


Figure 1. CTP-2000KL Equipment Structure

Overview of External Structure and Functions (Figure 1.)

1. **Chassis:** Provides structural support for the main unit.
2. **Transformer:** Supplies high-voltage current.
3. **Base:** Allows for easy movement of the equipment.
4. **Frequency Converter:** Adjusts the current frequency.
5. **Touchscreen:** Enables input and control of various parameters.
6. **Programmable Controller:** Controls digital and analog signals.
7. **Other Electrical Components:** Perform monitoring, detection, and additional functions.

III. Product Specifications

Product Name	High-Voltage Low-Frequency Digital Plasma Power Supply
SKU#	EPC2KLD1
Power Supply	AC220V ($\pm 10\%$)

Power Consumption	0-500W
Center Frequency	Approximately 50Hz
Adjustable Frequency Range	50-200Hz
Standard Output Voltage (Vpp)	0-30kV
Power Detection Ports	(1) Output voltage detection (with an internal 1000:1 capacitive voltage divider) (2) Instantaneous current detection (3) Integrated current detection
Equipment Weight	58kg
Platform Dimensions	400(W) × 780(H) × 400(D) mm
Other Information	Supports TCP/IP Communication Includes Control and Alarm Ports

Note: **The maximum voltage can be increased up to 60 kV (Vpp).** Higher voltage configurations require larger dimensions. Customization is available.

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