



ACS Material Equipment Series

High Power Low-temperature Plasma Experimental Power Supply

(CTP-2000K/A)

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Photo of High Power Low-temperature Plasma Experimental Power Supply

Product Features

- Used for arc discharge, dielectric barrier discharge, and glow discharge tests in various atmospheric environments, including high pressure, atmospheric pressure, and low pressure
- Generate various Dielectric Barrier Discharge (DBD) devices to produce long-term and stable streamer discharge or glow discharge
- Includes interfaces for input power measurement, high-voltage output voltage, and current detection
- Generate various gas reactors, gas-liquid reactors, or gas-solid reactors

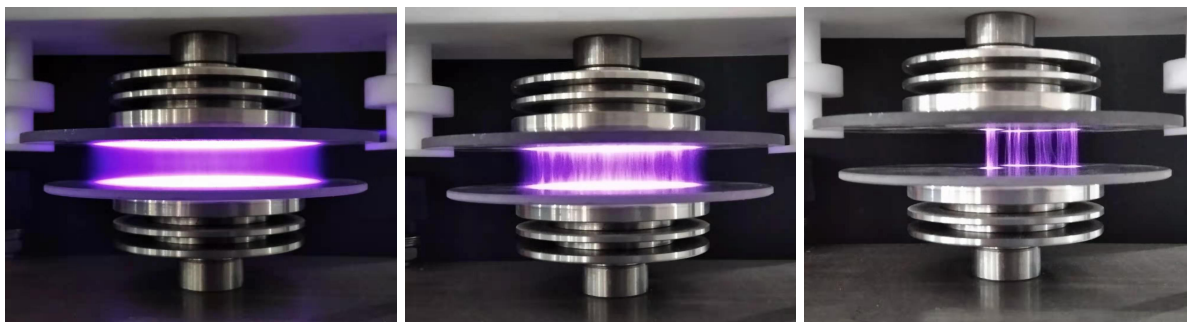
Product Specifications

Product Name	High Power Low-temperature Plasma Experimental Power Supply-Base Model
SKU #	EPC2KA01
Model	CTP-2000K/A
Output voltage (KV)	0 ~ 20
Input Power	AC 220V ($\pm 10\%$)
Center frequency (fo) (KHz)	10
Frequency (KHz)	5 ~ 20
Power (W)	0 ~ 1000
Unit Dimensions W × D × H (mm)	250 (W) × 370 (H) × 500 (D)
Weight (kg)	25
Temperature Range	-10°C ~ +40°C
Relative Humidity	< 93% (non-condensing)
Atmospheric Pressure (kPa)	86 ~ 106
Storage Environment	Temperature: -25°C ~ 55°C Relative Humidity: <93% (40°C non-condensing) Atmospheric Environment: 86 ~ 106 kPa

Applications

1. Surface modification treatment of organic and inorganic materials
 - Enhance compatibility of different polymer surfaces
 - Enhance suitability of biological surfaces
 - Clad nanomaterials
2. Preparation of organic or inorganic nanoparticles
3. Cleaning and sterilization

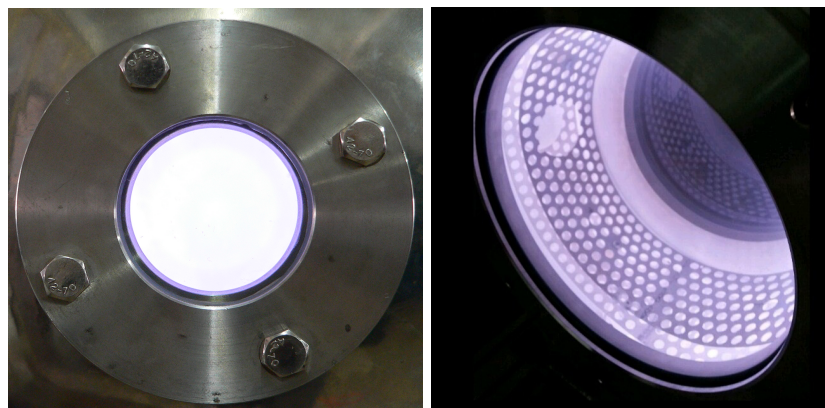
Application Examples:



(a)

(b)

(c)



(d)

(e)

Photo of Plasma Discharge

(a) DBD Strong Discharge (b) DBD Medium Intensity Discharge (c) DBD Weak Discharge

(d) Vacuum Argon Discharge (e) Vacuum Air Discharge

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