



ACS Material Equipment Series

Differential Output Low-temperature Plasma Experimental

Power Supply

(CTP-2000K/S)

- 1 – Product Features
- 2 – Product Specifications
- 3 – Applications
- 4 – Application Examples

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Photo of Differential Output Low-temperature Plasma Experimental Power Supply

Product Features

- Drives the DBD discharge device with a large discharge gap (20-30 mm) under various atmospheres (Air, oxygen, nitrogen and other inert gases) for long-term and stable discharge
- Generates various Dielectric Barrier Discharge (DBD) gas reactors or gas-solid reactors with large discharge gaps
- Includes interfaces for input power measurement, high-voltage output voltage and current detection
- The efficiency of the power supply can reach above 90%

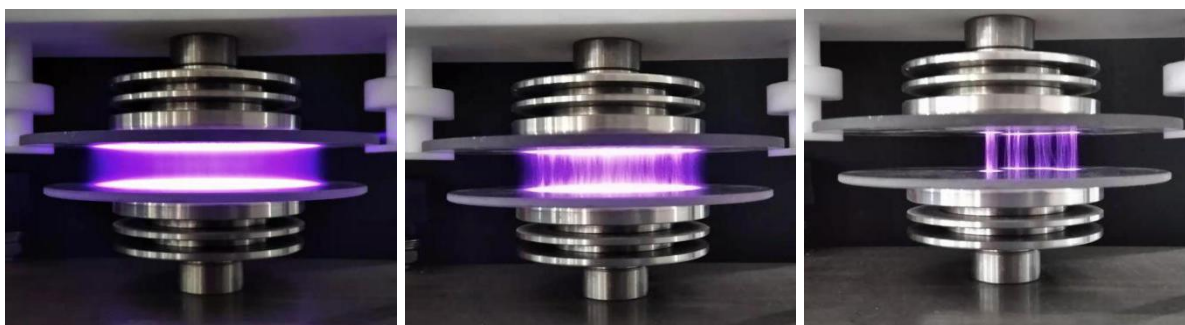
Product Specifications

| | |
|-----------------------------------|--|
| Product Name | Differential Output Low Temperature Plasma Experimental Power Supply |
| Model | CTP-2000K/S |
| Output voltage (KV) | 0~60 |
| Center frequency (fo) (KHz) | 1~100 (Selectable) |
| Frequency (KHz) | 30% fo~100% fo (Adjustable) |
| Power (W) | 500 |
| Unit Dimensions W × D × H (mm) | 250×250×380 (H) |
| Weight (kg) | 12 |

Applications

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

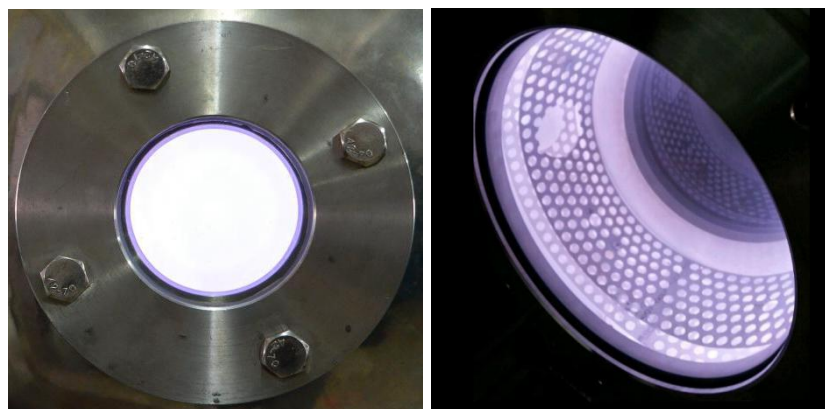
Application Examples



(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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