



ACS Material Equipment Series

Differential Output Low-temperature Plasma Experimental

Power Supply

(CTP-2000K/S)

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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%

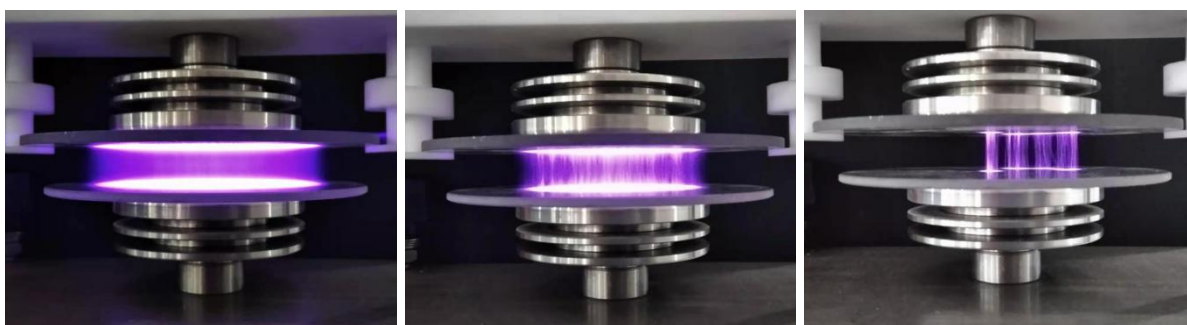
Product Specifications

Product Name	Differential Output Low Temperature Plasma Experimental Power Supply
SKU #	EPC2KS01
Model	CTP-2000K/S
DBD gap	≤ 30 mm
Output voltage (KV)	0~60
Center frequency (fo) (KHz)	1~100 (Selectable)
Frequency (KHz)	30% fo~100% fo (Adjustable)
Power (W)	0~500
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

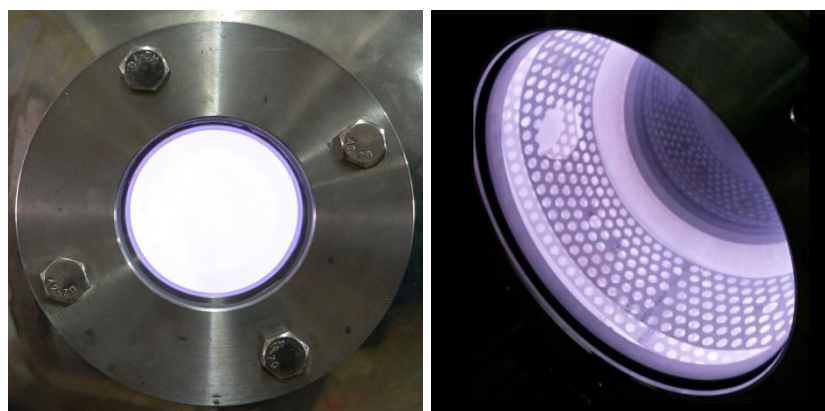
Application Examples:



(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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