



ACS Material Equipment Series

Low-pressure Low-temperature Plasma Experimental

Power Supply

(CTP-2000K/L)

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Photo of Low-pressure Low-temperature Plasma Experimental Power Supply

Product Features

- Suitable for use under low pressure
- Used to generate stable glow discharge under low pressure and various atmospheres (Air, oxygen, nitrogen and other inert gases)
- Generate a variety of Dielectric Barrier Discharge (DBD) or bare electrode reactor discharge to produce stable glow discharge
- Includes interfaces for input power measurement, output voltage and current detection
- The efficiency can reach above 90%

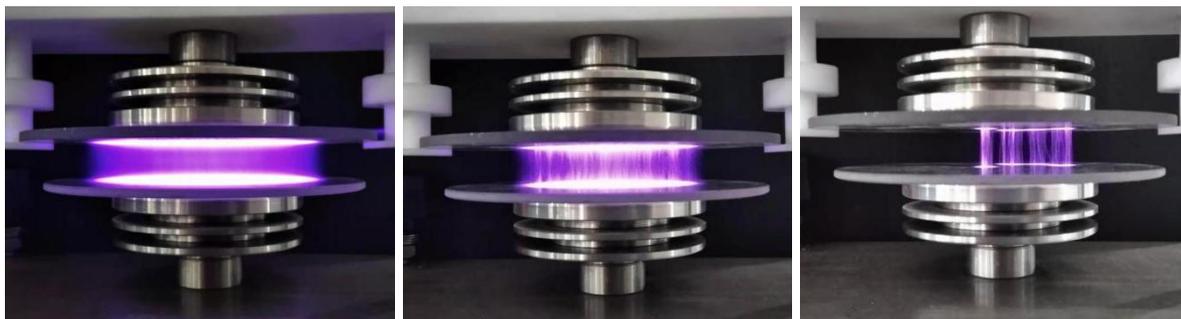
Product Specifications

Product Name	Low-pressure Low-temperature Plasma Experimental Power Supply
Model	CTP-2000K/L
Output voltage (KV)	0~3
Center frequency (fo) (KHz)	1~100 (Selectable)
Frequency (KHz)	30% fo~100% fo (adjustable)
Power (W)	500
Unit Dimensions W × D × H (mm)	250×250×360 (H)
Weight (kg)	8

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

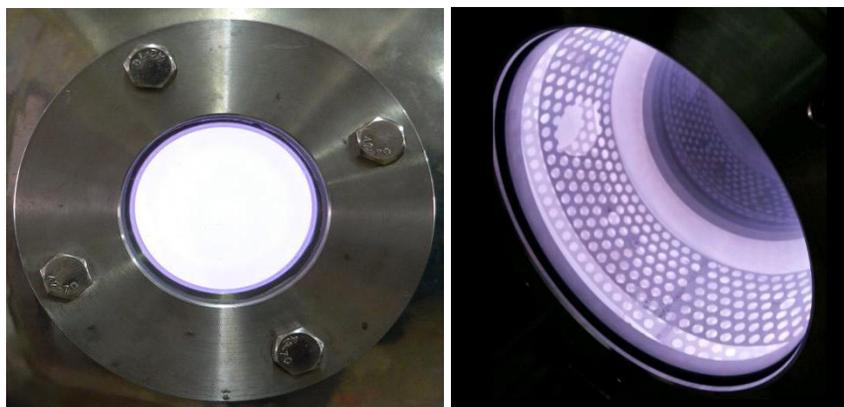
Application Examples



(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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