



ACS Material Equipment Series

Modulated Pulse Low-temperature Plasma Experimental

Power Supply

(CTP-2000K/P)

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Photo of Modulated Pulse Low-temperature Plasma Experimental Power Supply

Product Features

- Used to drive Dielectric Barrier Discharge (DBD) devices of various sizes of discharge gaps under various atmospheres (Air, oxygen, nitrogen and other inert gases)
- Suitable for use under varying pressure
- Lower heat energy of the reactor
- Adjustable power over a wide range
- Includes interfaces for input power measurement, high-voltage output voltage, current detection and synchronization
- The efficiency of the power supply can reach above 90%
- Pulse frequency adjustment range: 1~1000Hz
- Duty cycle adjustment range: 1~99%

Product Specifications

Product Name	Modulated Pulse Low-temperature Plasma Experimental Power Supply
Model	CTP-2000K/P
Output voltage (KV)	0~30
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)	9

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

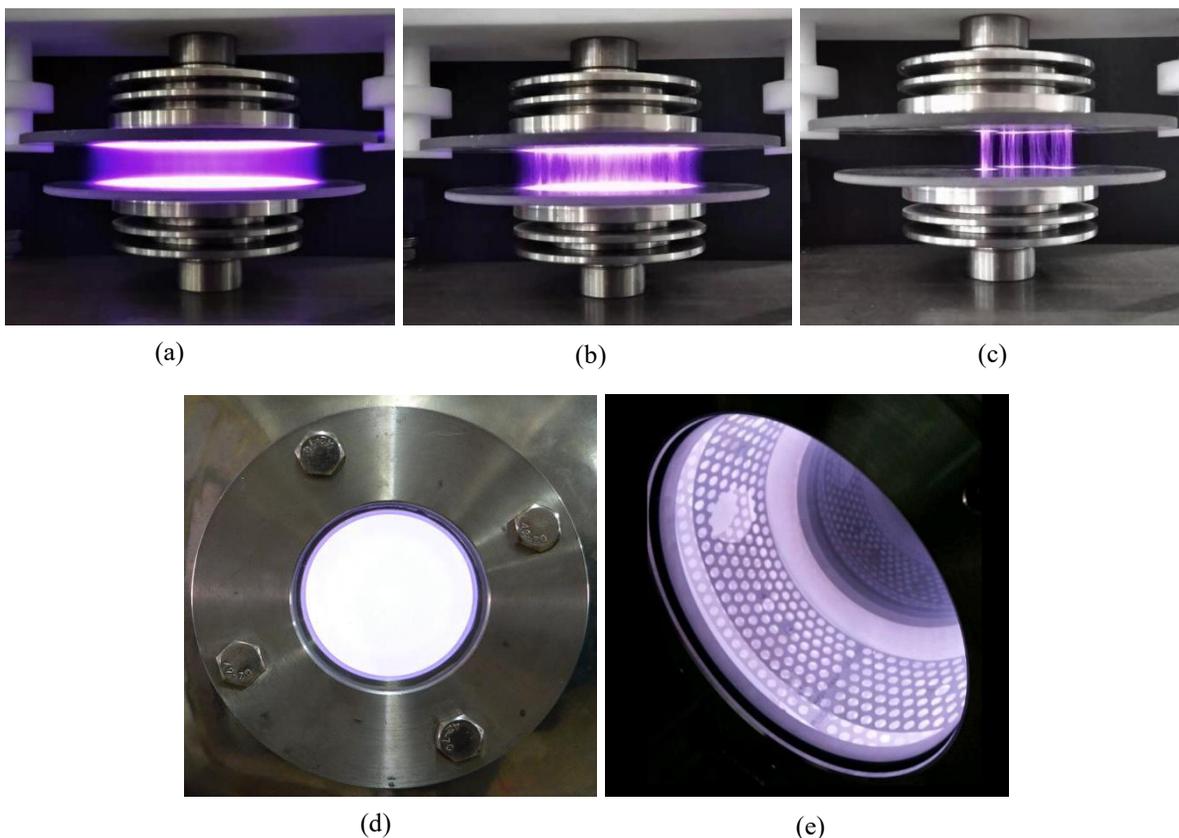


Photo of Plasma Discharge

- (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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