



DPxxxVT 500V to 2000V models DC Plasma Power Supply

The DPxxxVT power supply use high-frequency switching technology to produce regulated output voltage with high accuracy and repeatability. The control and monitoring circuits used in these power supplies have the ability to produce very stable outputs in constant-voltage or constant-current or constant-power in heavy duty cycles. The parameters of these power supplies can be controlled and monitored through the control-panel or through the remote-control by analog signals. Also, very fast arc detector circuits are responsible for protecting the power supply or the plasma system.

Features and Capabilities

Accuracy and Stability

The system output is very stable and repeatable and makes the power supply suitable for sensitive applications.

Fully Protected

This power supply has overvoltage, overcurrent and over temperature protections and very fast arc management system for perfect operation in various working conditions.

Fully Control and Monitoring

All parameters of this power supply can be controlled and monitored through the front panel or remotely, by analog signal.

Safety

CE-compliant Immunity and Emission standard.

Various operation modes

The device has three different working modes. Constant voltage mode and constant current mode and constant power mode. The user can set the working mode of the device in remote control mode or through the front panel of the device and adjust the output accordingly.

The other features

- Low stored energy.
- Low output ripple.
- Low line regulation and load regulation value.
- High input power factor.
- 7 segment digital displayer

Applications

- DC Magnetron Sputtering
- DC Bias Control in Plasma Systems
- DC Plasma Power Source
- Ion Source

DC Plasma Generators						
Model	DP82VT	DP86VT	DP810VT	DP154VT	DP204VT	DPxxxVT
Output voltage DC (v)	0-800v	0-800v	0-800v	0-1500v	0-2000v	Custom design
Output current DC (v)	0-200mA	0-600mA	0-1000mA	0-400mA	0-400mA	Custom design
Max output power	160w	480w	800w	600w	800w	1000w Max
Line regulation	less than 0.25%					
Load regulation	less than 0.25%					
Main power	200-240VAC, 47 ~ 63Hz					
Power factor	95% at full load.					
Output connector	N type (male)					
Operation modes	Voltage regulation, Current regulation, power regulation(option).					
Control panel	Voltage and Current adjust Knob, En/Dis and ON/Off key.					
Output stability	About 15 minutes after adjusting the voltage and reaching the temperature stability, less than 0.5% per hour and after an hour, less than 0.5% per day.					
Output ripple	0.1% RMS (If the load resistance is stable and the momentary change doesn't exist)					
Stored energy	Less than 0.3 to 1 joule.					
Display and control panel	Voltage (3 digits), Current (3 digits)					
Protection	Over temperature, short circuit and overvoltage protection and arc detection.					
Remote control	Standard analog control (0-10 V). Control: System on/off, Output En/Dis, Voltage and current adjustment. Monitoring: Voltage, Current.					
Operating temperature range	10 to 40 °C					
Cooling	Air (fan)					
Case material	Aluminum					