

Depollution Series

Compact and modular DC-AC high voltage power supply for Corona wire polarisation



SYSTEMS DEVELOPMENT & SOLUTIONS



2 standard products

Reference: (see chart for complete reference)

Vin : 24Vdc

Vout_{eff}: 3300Vrms or 5000Vrms

Iout_{nominal}: 1.0mA

Frequency: 250Hz

This space-saving regulated high voltage converter is suitable for depollution applications in a laser printer using corona discharges.

- block configuration
- single output
- voltage and current monitoring
- protection against overload, short circuit and arc

Parameters	Specifications
Input voltage Vin	24Vdc ±2V
Current consumption	<ul style="list-style-type: none"> ▪ version 3300Vrms: <0.6A ▪ version 5000Vrms: <1.0A
Output signal shape	quasi-sinusoidal
HV output Vout	<ul style="list-style-type: none"> ▪ version 3300Vrms: adjustable from 3000 to 3500Vrms ▪ version 5000Vrms: adjustable from 3500 to 5500Vrms
Output voltage setting	embedded trimmer
Output voltage stability	±5% for 22<Vin<26 Volts
Output current Iout	1mA nominal
Output voltage monitoring ratio	1Vrms for 1000Vrms, accuracy ±5%
Output current monitoring ratio	1Vrms for 1mA rms, accuracy ±5%
Output frequency	adjustable from 200Hz to 300Hz ±5%
Output frequency setting	embedded trimmer
Temperature range	from 15°C to 50°C
Humidity	from 20% to 80% relative humidity
Safeguards	<ul style="list-style-type: none"> ▪ soft start ▪ arc and short circuit protection ▪ protected towards polarity inversion ▪ protected against overshoot and over voltage
Compliance with standards	<ul style="list-style-type: none"> ▪ IEC ▪ CSA 22.2 – 950

Mechanical configuration	
Insulation	high voltage assembly entirely potted in an silicon resin
Casing material and finish	aluminium case with SURTEC 650 finish
Dimensions	L100 x W72 x H90 mm ; add totally 16mm width for the mounting brackets
Input/output connections for high voltage, setting and monitoring	through a Sub-D 9 male plug
High voltage output connector	high voltage shielded coaxial cable, length: 1.2m each
Mounting	flanged enclosure with 4 fixing holes

Depollution Series Selection Guide

Vout	Iout	Vin	Model
3500Vrms	1mA	24Vdc	Depollution3500
5000Vrms	1mA	24Vdc	Depollution5000

Other output voltages and output currents are available upon request. Do not hesitate to ask us about any parameter you would like to see changed for your application.