

# DEP Series

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



- ◇ Vin: 24Vdc
- ◇ Vout: up to 5000V rms
- ◇ Iout: 1mA (nominal)
- ◇ Frequency: 270Hz (typical)



## General Description

◇ This space-saving regulated high voltage inverter is suitable for depollution applications in various systems 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	<0.7A (typical 0.3A)
Output signal shape	Quasi-sinusoidal
HV output Vout	Adjustable from 300 to 5500Vrms
Output voltage setting	Embedded trimmer, factory setting: 4500Vrms +/-5 %
Output voltage stability (line)	±5% for 22<Vin<26 Volts
Output voltage stability (load)	±15% no load/full load
Output current Iout	1mA nominal
Output voltage monitoring ratio	1Vrms for 1000Vrms, accuracy ±5 %
Output voltage monitoring ratio	1Vrms for 1mArms, accuracy ±5 %
Output frequency	270Hz +/-10 %
Output frequency setting	Not available on this product
Input enable	TLL input (logic "0" = disable)
Output diagnostic	TLL output (logic "1" = HV >4200Vrms +/-1 %)
Temperature range	From 15°C to 50°C
Humidity	From 20 % to 80 % relative humidity
Safeguards	Soft start Arc and short circuit protection Protected against supply inversion



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## Mechanical configuration

Insulation	High voltage assembly entirely potted in an epoxy, UL listed 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 supply, setting and monitoring	MOLEX 43045-0609
HV output connection	HV UL coaxial cable: LEMO CHT.30.070.39060RB UL, length = 50 cm
Mounting	Flanged enclosure with 4 fixing holes

*All specifications given for a 0.5 meter length, HV coaxial cable (100pf/m) at the output.*

Other output voltages and outputs currents are available upon request.

Do not hesitate to ask us about any parameter you would like to see changed for your application.



This High Voltage power supply satisfies the requirements of EC Directives Safety.

Non contractual document.

All specifications are subject to change without notice.

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SDS  
High Voltage



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