

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.

RevD 06/14

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