OS Series 2 kW Regulated High Voltage DC Power Supplies

200 kV to 450 kV, Open Stack CE Compliant

Power Factor Corrected to > .995

Harmonics Well Below EN61000-3-2

The OS family of power supplies are sophisticated 2 kW, open stack, power supplies with extremely low ripple and noise. They are air insulated fast response units with tight regulation. They are designed to meet the growing demands from both users and electric utilities for switching supplies with excellent input power factors that draw harmonic currents below those specified in EN61000-3-2.

OS series models consist of a rack style driver chassis, a high voltage stack assembly, and a remote control unit. The driver chassis is provided in a cabinet which is 8.43" H x 22.56" D, onto which the high voltage stack is mounted. The dimensions of the stack vary with the output voltage rating and are given in the specifications. The rack mountable remote control provides all interface functions and is connected to the driver chassis with the 25 ft. long cables provided. The remote control unit is 5.25" H x 5.0" D.

The OS Series are fully compliant with the European Harmonized EMI Directive, EN50082-1 and with the European Low Voltage (safety) Directive, 73/23/EEC.

Features:

- Power Factor Corrected. Active correction circuitry achieves an input line current harmonic content well below the maximum specified in EN61000-3-2.
- Arc Quench. The HV output is inhibited for a short period after each load arc to help extinguish the arc.
- Arc Sensing. Internal circuitry constantly senses and integrates arcs that occur over a given time. In the event a system or load arcing problem develops and exceeds factory-set parameters, the power supply will cycle off in an attempt to clear the fault and then automatically restart after a preset "off dwell time".
- Pulse-Width Modulation. Off-the-line pulse-width modulation provides high efficiency and a reduced parts count for improved reliability.
- Air Insulated. The OS Series features "air" as the primary dielectric medium. No oil or encapsulation is used to impede serviceability or increase weight.

Constant Voltage/Constant Current Operation. Automatic crossover from constant-voltage to constant-current regulation provides protection against overloads, arcs, and short circuits.

Current Trip. This feature may be substituted for constant-current operation by a remote control chassis rear panel selector switch.

Low Ripple. Typically, ripple is less than 0.05% peak to peak of rated voltage at full load.

Tight Regulation. Voltage regulation is better than 0.005% for allowable line and load variations. Current regulation is better than 0.1% from short circuit to rated voltage.

Warranty. Standard power supplies are warranted for three years; OEM and modified power supplies are warranted for one year. A formal warranty statement is available.

Designing Solutions for High Voltage Power Supply Applications

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