

Power Supply Device and Discharge Lamp Lighting Device**ABSTRACT**

A power supply device and a discharge lamp lighting device which are capable of reducing high harmonic elements and improving a crest factor.

A full-wave rectifying circuit 1 is connected to a commercial AC power supply, and a first condenser C1 having a larger capacity, a diode D1 and second condenser C2 having a smaller capacity are connected to the full-wave rectifying circuit 1. A partially smoothed circuit consisting of a charge condenser C3, an inductor L1 and a diode D2 is connected to the second condenser C2. A parallel resonance circuit 4 and a collector-emitter of a transistor Q1 are connected to the partially smoothed circuit, the parallel resonance circuit 4 consisting of a primary winding Tr1a of an inverter transformer Tr1 and a first resonance condenser C4. A second resonance condenser C5 is disposed between and connected to the emitter and the collector of the transistor Q1. Filaments FL1, FL2 of a fluorescent lamp FL are connected to a secondary winding Tr1b of the inverter transformer Tr1, and a starting condenser C6 is connected to the filaments FL1, FL2.

This Sheet Has Been Replaced

