

**ZHONGSHAN DICHENG ILLUMINATION ELECTRICAL DEVICES  
MANUFACTURING CO.LTD**

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**Product: Electronic ballast Model:DC-NXU-6101-A**

**Functional Description**

Referring to the block diagram, the supplying voltage of 120V/60Hz from a conventional AC line is applied to input circuit which includes a EMI filter inductor L1 and filter capacitor C1, diodes D1-D4 which act as a voltage of 230-250 volts DC and this voltage is then applied to the inverter(Half-bridge) circuit which includes transistors Q1 and Q2 and the associated components and to the starter circuit. When the inverter work it generates a voltage of 500-600 volts/20-35KHz AC passing on the lamps(strike)network and ignition the T9 lamps work steadily the output voltage of inverter reduced to 160-200 volts AC.

Once there's any abnormal with circuit, the impedance of protection component C8/C9/C10/C11 /R9/ R10/R11/R12/DB32/Q3 increase and the lamps will shut down as the ballast is stopped, avoiding any unexpected fire.