



Guidelines

Transformers for Low Voltage LED Lights

Using Existing Transformers

Generally you can use your existing transformer however there is a potential problem. Your existing transformer will have been driving one or more 35W-50W lamps; if the power drawn by LED replacements doesn't meet the minimum requirements of your transformer then the voltage output will increase and may permanently damage your LED lamps. In order to overcome this issue you need to increase the number of lamps you are using on each transformer thus increasing the load, most typical Electronic Lighting transformers have a minimum load requirement of approx 10W as well as a maximum load. So make sure the sum of Watts your lamps you are using exceed this minimum figure.

New Transformers

If you are replacing your transformers or fitting a new one then we would recommend you purchase a dedicated LED transformer. For the range of MR16 lamps supplied by Diamond LED this would need to be a constant voltage transformer. Unlike electronic transformers these do not have minimum load requirements, but do have a maximum so make sure the sum of Watts used by your lamps is less than the maximum rating of the transformer. To maximize the efficiency of your transformer keep the maximum as close as possible to the sum of lamps used.

As LED transformers are design specifically for LED lamps, they are more efficient than using existing electronic transformers transformer.