



Home Energy Check-up Information Sheet

Issue Number	Subject / Source	Date
2	Low Energy Lighting LED bulbs and compact fluorescent Wattage comparison chart	10/02/15

240. v GU10 L.E.D. (light emitting diode) bulbs are now widely available in various wattages and colours. They are more expensive but last much longer.

L.E.D. bulbs are also available as a direct replacement for the old tungsten filament bulbs. Increasingly they will become available only as small and large screw fittings.

There is a also a 12volt LED available (MR16) for lighting running on a 12 volt transformer circuit. N.B. Because of the very low load on the transformer when using L.E.D. bulbs this may cause problems. Advise clients ALWAYS to get professional advice before changing over to L.E.D. bulbs.

Do not mix halogen and LED bulbs on a 12v transformer circuit.

Low Energy Bulb

Incandescent Bulb

9 watts	=	40
11 watts		50
15 watts		75
20 watts		100
26 watts		125
30 watts		150

GU 10 LED bulbs are rated differently

50 watt halogen	=	7 watt L.E.D
30 watt halogen	=	1.8 watt L.E.D.

L.E.D. bulbs are therefore even more energy efficient and are much closer to a white light. Also worth noting many L.E.D. bulbs have a life expectancy of between 30,000 – 50,000 hours and if used to replace a light frequently used will quickly recoup the extra cost especially as 50 watt halogen bulbs have a relatively short life because they run so hot.