

LED Spotlights (MR16 & GU10) Versus Halogen Spotlights

- Specs, Benefits, Warranty, Comparisons, Energy Savings & Payback Time



Product Specifications:

Model	Power (W)	Halogen Equivalent	LED Colours Available	Colour Temperature (Kelvin)	Life Expectancy (Hours)	IP Rating	Light Out (Lumens)
MR16-3W	3W	35W	WW/CW/R/G/B/Y	WW-3000K/CW-6000K	> 50,000	54 (indoor)	220 (WW)
MR16-6W	6W	50W	WW/CW/R/G/B/Y	WW-3000K/CW-6000K	> 50,000	54 (indoor)	360 (WW)
GU10-3W	3W	35W	WW/CW/R/G/B/Y	WW-3000K/CW-6000K	> 50,000	54 (indoor)	220 (WW)
GU10-6W	6W	50W	WW/CW/R/G/B/Y	WW-3000K/CW-6000K	> 50,000	54 (indoor)	360 (WW)
Colour Info	WW: Warm White; CW: Cool White; R: Red; G: Green; B: Blue; Y: Yellow						

Key benefits:

- Energy saving:
3W MR16 & GU10 LED spotlight lamp replaces 35W conventional halogen spotlight lamp
6W MR16 & GU10 LED spotlight lamp replaces 50W conventional halogen spotlight lamp
- Maintenance Free & Long Lifespan
- Easy installation
- Environmentally friendly - RoHS, 0% Mercury

Warranty:

We offer a 24-month warranty with these products, and will replace lamp if for any reason it malfunctions during in this time.

Annual Running Costs, Maintenance Requirement & Expected Annual Savings by switching to LED:

Based on running 1 lamp 12 hours/day at 17cents/KWh over 365 days a year (used 4,000 hours/year).

LED Spotlight: Annual Running Cost (1 lamp) & expected Maintenance/Replacement Requirement

Model	Power (W)	Annual Running Cost (4,000 hrs)	Life Expectancy (Hours)	Maintenance Requirement
MR16-3W	3W	€2.04	50,000	Every 12.5 years
GU10-6W	6W	€4.08	50,000	Every 12.5 years
MR16-3W	3W	€2.04	50,000	Every 12.5 years
GU10-6W	6W	€4.08	50,000	Every 12.5 years

Halogen Spotlight: Annual Running Costs (1 lamp) & expected Maintenance/Replacement Requirement

Model	Power (W)	Annual Running Cost (4,000 hrs)	Life Expectancy (Hours)	Maintenance Requirement
MR16-35W	35W	€22.80	2,000	Every 6 months
MR16-50W	50W	€34.00	2,000	Every 6 months
GU10-35W	35W	€23.80	2,000	Every 6 months
GU10-50W	50W	€34.00	2,000	Every 6 months

% Energy Savings of LED over Halogen

LED Vs Halogen	% Savings
3W LED Vs 35W Halogen	90%
6W LED Vs 50W Halogen	88%

Payback Time Per Lamp

Model	Price	Annual Savings	Payback Calculations (LED Lamp Price / Annual Savings + Halogen Lamp Price)	Payback Time
MR16-3W	€25.00	€22.76	€25.00 / €22.76 + €5.00 = 1 year	12 months
MR16-6W	€35.00	€30.00	€35.00 / €30.00 + €5.00 = 1 year	12 months
GU10-3W	€25.00	€22.76	€25.00 / €22.76 + €5.00 = 1 year	12 months
GU10-6W	€35.00	€35.00	€35.00 / €30.00 + €5.00 = 1 year	12 months