

# HALOGEN ENERGY SAVER lamps from OSRAM: a brilliant idea.



## Something you can count on.

Savings from replacing an ordinary 60 W light bulb with a 42 W HALOGEN ENERGY SAVER:

Savings in kWh	36
Savings in € <sup>1</sup>	6.12
CO <sub>2</sub> -savings in kg <sup>2</sup>	18
CO <sub>2</sub> -savings in trees <sup>3</sup>	0.45 x 

<sup>1</sup> For an electricity price of 0.17 €/kWh

<sup>2</sup> For an energy mix of 0.5 kg CO<sub>2</sub>/kWh

<sup>3</sup> Corresponding to the amount of CO<sub>2</sub> that one tree absorbs in a year

All figures relate to an average lamp life.

## Good for you. Good for your customers. Good for the environment.

**A complete range of energy-saving halogen lamps for the first time: mains voltage rather than line voltage HALOGEN ENERGY SAVER lamps.**

Thanks to the new and innovative generation of halogen lamps from OSRAM high-quality light and energy savings are no longer mutually exclusive. HALOGEN ENERGY SAVER lamps provide light that is just as pretty as light from conventional halogen lamps – but with up to 30% lower power consumption, longer life and CO<sub>2</sub> savings.

**The technology makes the difference: IRC plus xenon.** HALOGEN ENERGY SAVER lamps combine two innovative lamp technologies.

**IRC reduces energy losses due to thermal radiation:**

A special infra-red coating on the inside of the bulb reflects the heat back to the filament. This means that less energy has to be supplied from outside to keep the filament at its operating temperature.

**Xenon reduces heat losses through the filler gas:**

The inert gas xenon has low thermal conductivity. This reduces the heat loss of the tungsten filament via the filler gas, so less electrical energy is needed to heat the filament.

**Clear benefits and brilliant arguments:**

- Much lower thermal output enables luminaires with more compact dimensions to be designed
- Existing luminaires can be directly upgraded
- The range of luminaires can therefore be expanded and optimized
- Sustainable eco-friendly products and marketing concepts are the latest trend
- Most efficient light source (R<sub>a</sub> 100) with excellent colour rendering
- Because these new lamps have a much longer life than standard lamps, your customers can save up to 30% in energy and as much as 65% in costs
- Active contribution to climate protection




With its innovative and sustainable products and processes OSRAM has a long history of helping to protect the environment and meeting global challenges. We take a responsible approach to natural resources, avoid waste and develop durable eco-friendly products – such as HALOGEN ENERGY SAVER lamps. For more information go to [www.osram.com/global-care](http://www.osram.com/global-care)



## MAINS VOLTAGE

				Savings	CO <sub>2</sub> savings	
				in € <sup>1</sup>	in kg <sup>2</sup>	in  <sup>3</sup>
1	<b>HALOLINE® ES</b> with R7s base					
	<b>Standard HALOLINE®</b>	<b>HALOLINE® ES</b>				
	300 W → 230 W		23.80	70.0	1.75	
	500 W → 400 W		34.00	100.0	2.50	
2	<b>OSRAM HALOPAR® ES</b> with GU10 base					
	<b>Standard HALOPAR®</b>	<b>HALOPAR® ES</b>				
	50 W → 40 W		3.40	10.0	0.25	
3	<b>HALOPIN® ES</b> with G9 base					
	<b>Standard HALOPIN®</b>	<b>HALOPIN® ES</b>				
	40 W → 33 W		2.38	7.0	0.18	
4	<b>HALOGEN ES CLASSIC A</b> with E27 base					
	<b>Standard light bulb</b>	<b>HALOGEN ES CLASSIC A</b>				
	40 W → 28 W		4.08	12.0	0.30	
	60 W → 42 W		6.12	18.0	0.45	
5	<b>HALOGEN ES CLASSIC B</b> with E14 base					
	<b>Standard light bulb</b>	<b>HALOGEN ES CLASSIC B</b>				
	40 W → 28 W		4.08	12.0	0.30	
6	<b>HALOGEN ES SPOT R50</b> with E14 base					
	<b>Standard reflector lamp</b>	<b>HALOGEN ES SPOT R50</b>				
	40 W → 28 W		4.08	12.0	0.30	
7	<b>HALOGEN ES SPOT R63</b> with E27 base					
	<b>Standard reflector lamp</b>	<b>HALOGEN ES SPOT R63</b>				
	60 W → 42 W		6.12	18.0	0.45	

## LOW VOLTAGE

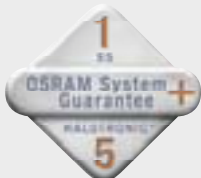
				Savings	CO <sub>2</sub> savings	
				in € <sup>1</sup>	in kg <sup>2</sup>	in  <sup>3</sup>
8	<b>DECOSTAR® ES</b> with GU5.3 base					
	<b>Standard DECOSTAR®</b>	<b>DECOSTAR® ES</b>				
	35 W → 20 W		12.75	37.5	0.38	
	50 W → 35 W		12.75	37.5	0.38	
	65 W → 50 W		12.75	37.5	0.38	
9	<b>HALOSTAR® ES</b> with GY6.35 base					
	<b>Standard HALOSTAR®</b>	<b>HALOSTAR® ES</b>				
	35 W → 25 W		6.80	20.0	0.25	
	50 W → 35 W		10.20	30.0	0.38	
	75 W → 50 W		18.00	50.0	0.63	
	90 W → 65 W		18.00	50.0	0.63	
10	<b>HALOSPOT® 111 ES</b> with G53 base					
	<b>Standard HALOSPOT® 111</b>	<b>HALOSPOT® 111 ES</b>				
	50 W → 35 W		10.20	30.0	0.38	
	75 W → 50 W		18.00	50.0	0.63	
	100 W → 65 W		24.80	70.0	0.88	

<sup>1</sup> For an electricity price of 0.17 €/kWh

<sup>2</sup> For an energy mix of 0.5 kg CO<sub>2</sub>/kWh

<sup>3</sup> Corresponding to the amount of CO<sub>2</sub> that one tree absorbs in a year

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In combination with HALOTRONIC® you get a 5 year guarantee on the ECG and 1 year guarantee on ES lamps from OSRAM. For the registration form and the terms of the guarantee go to [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee). (After registering the system and under certain conditions of use)

