



## HALOGEN Energy Savers - ES Range

The choice for energy saving alternatives is now easier with HALOGEN Energy Savers from OSRAM.

30%  
Energy  
Saving!\*



ENERGY  
SAVER

\* Compared to equivalent incandescent lamp.

SEE THE WORLD IN A NEW LIGHT

OSRAM



# A brilliant idea: ENERGY SAVER halogen mains voltage lamps.

OSRAM has brought energy savings to halogen lamps. Our innovative HALOGEN ENERGY SAVER lamps catch the eye not only because of their high luminous intensity, excellent quality of light and constant colour but also because they save up to 30%\* in costs compared with equivalent incandescent lamps. That's worth highlighting!

Bright natural looking light, long life and up to 30%\* energy savings are the strengths of our modern HALOGEN ENERGY SAVER lamps. You can use them to brighten up your entire home, business or restaurant, both inside and outside, with everything from small reading lights to large spotlights.

Halogen lamps from OSRAM provide feel-good light that has a similar effect to natural light. All our halogen lamps are fully dimmable, so depending on your mood you can have them bright or dimmed to create the right ambiance.

OSRAM halogen lamps not only look good, they perform a wide range of functions. The HALOGEN ENERGY SAVER lamps from OSRAM with screw and bayonet cap bases are particularly practical as they are simple direct replacements for ordinary light bulbs.

#### **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.

#### **All the benefits of HALOGEN ENERGY SAVER lamps at a glance.**

- Up to 30%\* cost savings
- Fully dimmable
- Higher luminous efficacy
- Lower power consumption
- Lower heat emission
- Warm white light
- Most efficient light source (R<sub>a</sub> 100) with true colour rendering



No compromise – HALOGEN ENERGY SAVER lamps from OSRAM offer excellent quality of light and energy savings

\* Compared to equivalent incandescent lamp.

**MAINS VOLTAGE**



**HALOGEN ES CLASSIC A**

Halogen lamp in the classic shape of a light bulb.

- Up to 30 % energy savings<sup>1</sup>
- Cost-effective halogen alternative for direct replacement of classic light bulbs
- E27 screw base and B22d
- Average life of 2000 hours
- Much lower CO<sub>2</sub> emissions<sup>1</sup>
- Lower heat emission
- Colour temperature approx. 2800 K
- Fully dimmable

Standard light bulb (GLS)		HALOGEN ES CLASSIC A
25 W	→	18 W ES
40 W	→	28 W ES
60 W	→	42 W ES
75 W	→	52 W ES
100 W	→	70 W ES
150 W	→	105 W ES

<sup>1</sup> Compared with GLS



**HALOGEN ES CLASSIC B**

Halogen lamp in the classic candle shape.

- Up to 30 % energy savings<sup>2</sup>
- Cost-effective halogen alternative for direct replacement of classic candle bulbs
- E14 screw base and B22d
- Average life of 2000 hours
- Much lower CO<sub>2</sub> emissions<sup>2</sup>
- Lower heat emission
- Colour temperature approx. 2800 K
- Fully dimmable

Standard light bulb (GLS) candle shape		HALOGEN ES CLASSIC B
40 W	→	28 W ES
60 W	→	42 W ES

<sup>2</sup> Compared with GLS in candle shape



**HALOGEN ES R50 + R63**

Halogen lamp in the shape of a spotlight bulb.

- Up to 30 % energy savings<sup>3</sup>
- Cost-effective halogen alternative for direct replacement of classic spotlight bulbs
- E14 (R50) and E27 (R63) bases
- Average life of 2000 hours
- Much lower CO<sub>2</sub> emissions<sup>3</sup>
- Lower heat emission
- Colour temperature approx. 2800 K
- Fully dimmable

Standard light bulb (GLS) spotlight		HALOGEN ES SPOT R50
40 W	→	28 W ES

Standard light bulb (GLS) spotlight		HALOGEN ES SPOT R63
60 W	→	42 W ES

<sup>3</sup> Compared with CONCENTRA® (GLS) as a spotlight



**OSRAM HALOPAR® 16 ES**

HALOPAR® ES for mains voltage.

- Up to 20 % energy savings<sup>4</sup>
- Direct replacement for standard halogen reflector lamps
- Average life of 2000 hours
- Lower heat emission
- Glass reflector for lighting effects.
- Innovative bulb pinch technology for discharge vessel and with integrated fuse function; complies with the safety requirements of AS/NZS 60432-2
- Approved for use in open luminaires (to AS/NZS 60598-1)
- No transformer required
- Colour temperature approx. 2900 K
- Fully dimmable

OSRAM HALOPAR® Standard		OSRAM HALOPAR® 16 ES
50 W	→	40 W ES



<sup>4</sup> Compared with OSRAM HALOPAR® 16 STANDARD



**HALOLINE® ES**

Slim classic for inside and outside.

- Up to 20 % energy savings<sup>5</sup>
- Direct replacement for standard halogen floodlight lamps
- Average life of 2000 hours
- Much lower CO<sub>2</sub> emissions<sup>5</sup>
- Lower heat emission
- Ideal for emphasising and accentuating the structure of a room
- No transformer required
- Colour temperature approx. 3000 K
- Fully dimmable

HALOLINE® Standard		HALOLINE® ES
100 W	→	80 W ES
150 W	→	120 W ES
300 W	→	230 W ES
500 W	→	400 W ES



<sup>5</sup> Compared with HALOLINE® STANDARD



**HALOPIN® ES**

Our smallest lamp for mains voltage.

- Up to 20 % energy savings<sup>6</sup>
- Direct replacement for standard G9 halogen lamp
- Average life of 2000 hours
- Lower heat emission
- Extremely compact dimensions
- Robust filament design thanks to unique bulb pinch technology
- Complies with AS/NZS 60432-2 thanks to integrated fuse function
- Approved for use in open luminaires (to AS/NZS 60598-1)
- No transformer required
- Simple handling with G9 plug-in base/holder system
- Colour temperature approx. 2900 K
- Fully dimmable

HALOPIN® Standard		HALOPIN® ES
40 W	→	33 W ES



<sup>6</sup> Compared with HALOPIN® STANDARD



Low voltage Halogen ENERGY SAVER lamps with IRC technology offer up to 30% energy savings.

# ENERGY SAVER halogen low voltage lamps. The technology makes the difference: IRC and Xenon

The secret of the innovative HALOGEN ENERGY SAVER lamps from OSRAM is in the use of two modern lamp technologies. IRC reduces energy losses due to thermal radiation and Xenon reduces heat losses through the filler gas. IRC and Xenon ensure that energy savings of up to 30%\* are achieved compared to standard halogen lamps.



## HALOSTAR® ES

Our smallest energy saver.

- Up to 30% energy savings<sup>7</sup>
- Direct replacement for standard pin base lamps
- Long average life of 4000 hours
- Lower thermal output
- High luminous efficacy of up to 26 lm/W
- Meets AS/NZS 60598-1 requirements: can be used in free-burning applications in open luminaires thanks to low-pressure design
- Axial filament for optimum directional light
- Gold-plated/platinized base pins for corrosion protection
- Fully dimmable

Standard pin-base lamp		HALOSTAR® ES
35 W	→	25 W ES
50 W	→	35 W ES
75 W	→	50 W ES
90 W	→	65 W ES

<sup>7</sup> Compared with HALOSTAR® STANDARD



## DECOSTAR® ES

Our most beautiful energy saver.

- Up to 30% energy savings<sup>8</sup>
- Direct replacement for standard dichroic reflector lamps
- Extra long average life of 5000 hours
- Significantly lower CO<sub>2</sub> emissions<sup>8</sup>
- Lower thermal output
- Constant luminous intensity and constant colour location throughout the life of the lamp thanks to the longlife coating
- Integrated shield so the lamps can be used in open luminaires to AS/NZS 60598-1
- Fully dimmable

Standard dichroic reflector lamp		DECOSTAR® ES
35 W	→	20 W ES
50 W	→	35 W ES
65 W	→	50 W ES

<sup>8</sup> Compared with DECOSTAR® STANDARD



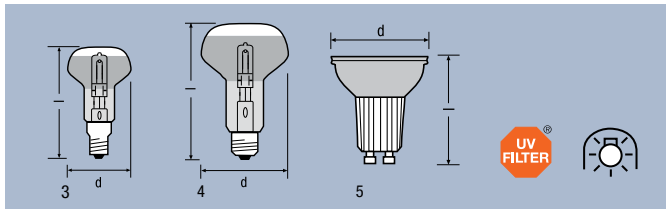
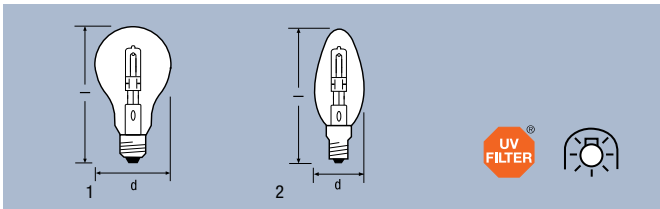
## HALOSPOT® 111 ES

The power pack for accent lighting.

- Up to 30% energy savings<sup>9</sup>
- Direct replacement for standard 111 lamps
- Long average life of 4000 hours
- Lower thermal output
- Better quality lighting thanks to optimum illumination and reduced scatter
- Precision engineered shape and greater reflectance
- Loss of light reduced thanks to a smoother reflector surface
- Cap for reduced glare and ease of handling
- Meets AS/NZS 60598-1 requirements: can be used in free burning applications in open luminaires thanks to low pressure design
- Fully dimmable

Standard 111 lamp		HALOSPOT® 111 ES
50 W	→	35 W ES
75 W	→	50 W ES
100 W	→	65 W ES

<sup>9</sup> Compared with HALOSPOT® 111



Product number	Product reference	W	lm	t [h]*					
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### HALOGEN ES CLASSIC A - Clear

64541 ES A B22d 18W	4008321934239	18	220	2000	B22d	56	96	73	1
64542 ES A B22d 28W	4008321918949	28	345	2000	B22d	56	96	73	1
64542 ES A E27 28W	4008321229267	28	345	2000	E27	56	96	73	1
64543 ES A B22d 42W	4008321919083	42	630	2000	B22d	56	96	73	1
64543 ES A E27 42W	4008321229281	42	630	2000	E27	56	96	73	1

### HALOGEN ES CLASSIC A - Frosted

64541 ES A FR B22d 18W	4008321934246	18	220	2000	B22d	56	96	73	1
64542 ES A FR B22d 28W	4008321277220	28	345	2000	B22d	56	96	73	1
64542 ES A FR E27 28W	4008321229366	28	345	2000	E27	56	96	73	1
64543 ES A FR B22d 42W	4008321277244	42	630	2000	B22d	56	96	73	1
64543 ES A FR E27 42W	4008321229380	42	630	2000	E27	56	96	73	1
64544 ES A FR E27 52W	4008321934253	52	840	2000	E27	56	96	73	1
64547 ES A FR B22d 70W	4008321934260	70	1240	2000	B22d	56	96	73	1
64547 ES A FR E27 70W	4008321934277	70	1240	2000	E27	56	96	73	1
64548 ES A FR B22d 105W	4008321934284	105	1900	2000	B22d	56	96	73	1

### HALOGEN ES CLASSIC B (CANDLE) - Clear

64542 ES B B22d 28W	4008321229182	28	345	2000	B22d	35	104	67	2
64542 ES B E14 28W	4008321229304	28	345	2000	E14	35	104	67	2
64543 ES B B22d 42W	4008321934789	42	630	2000	B22d	35	104	67	2
64543 ES B E14 42W	4008321934796	42	630	2000	E14	35	104	67	2

### HALOGEN ES CLASSIC B (CANDLE) - Frosted

64542 ES B FR B22d 28W	4008321229243	28	345	2000	B22d	35	104	67	2
64542 ES B FR E14 28W	4008321228864	28	345	2000	E14	35	104	67	2

Product number	Product reference	W	cd		t [h]*				
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### HALOGEN ES SPOT R50

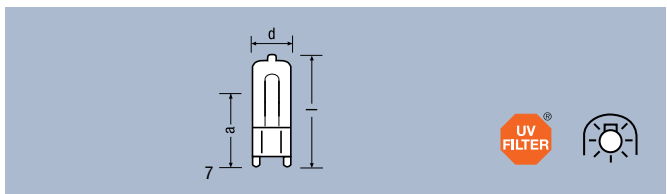
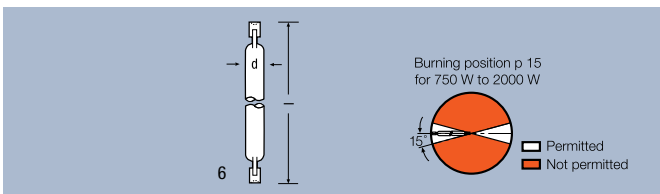
64545 ES R50 E14 28W	4008321229348	28	430	30	2000	E14	51	86.5	3
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### HALOGEN ES SPOT R63

64546 ES R63 E27 42W	4008321229342	42	960	30	2000	E27	64	105	4
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### OSRAM HALOPAR® 16 ES with GU10 base

64823 ES FL GU10 40W	4008321918901	40	900	30	2000	GU10	50.7	55	5
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Product reference	Product number	W	lm	t [h]*				
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### HALOLINE® ES - Universal burning position

64690 ES R7s 80W	4008321928078	80	1500	2000	R7s	74.9	12	6
64695 ES R7s 120W	4008321928092	120	2450	2000	R7s	74.9	12	6
64701 ES R7s 230W	4008321227966	230	5060	2000	R7s	114.2	12	6
64702 ES R7s 400W	4008321227980	400	9200	2000	R7s	114.2	12	6



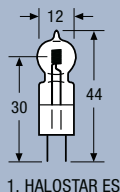
Enclosed luminaires are needed with these halogen floodlight lamps for both indoor and outdoor applications (in accordance with IEC 60598). Fuse protection with the indicated values is recommended on the luminaire side (as per IEC 60357).

Product reference	Product number	W	lm	t [h]*					
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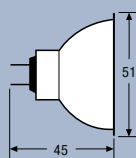
### HALOPIN® ES with G9 base clear

66733 ES G9 33W	4008321226327	33	460	2000	G9	14	43	22	7
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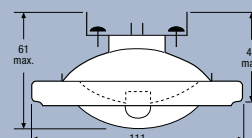
\* Average life



1. HALOSTAR ES



2. DECOSTAR ES



3. HALOSPOT 111 ES

### OSRAM HALOSTAR® ES in low-pressure design

Product reference	Product no. (EAN)	Wattage	Voltage	Base	Luminous flux	Average life	Fig. no.	Pack
64429 ES	4050300987262	25	12	GY6.35	500 lm	4000 h	1	40 pcs
64432 ES	4050300615905	35	12	GY6.35	900 lm	4000 h	1	40 pcs
64440 ES	4050300615936	50	12	GY6.35	1250 lm	4000 h	1	40 pcs
64447 ES	4050300785400	65	12	GY6.35	approx. 1700 lm	4000 h	1	40 pcs

### OSRAM DECOSTAR® 51 ES, dichroic reflector lamp with shield, dia. 51-mm

Product reference	Product no. (EAN)	Wattage	Voltage	Base	Beam angle	Lumi int	Average life	Fig. no.	Pack
48860 ES SP	4050300620169	20	12	GU5.3	10°	6000 cd	5000 h	2	20 pcs
48860 ES FL	4050300620183	20	12	GU5.3	24°	2300 cd	5000 h	2	20 pcs
48860 ES WFL	4050300620206	20	12	GU5.3	36°	1000 cd	5000 h	2	20 pcs
48860 ES VWFL	4050300620220	20	12	GU5.3	60°	450 cd	5000 h	2	20 pcs
48865 ES SP	4050300516592	35	12	GU5.3	10°	12500 cd	5000 h	2	20 pcs
48865 ES FL	4050300516615	35	12	GU5.3	24°	4400 cd	5000 h	2	20 pcs
48865 ES WFL	4050300516639	35	12	GU5.3	36°	2200 cd	5000 h	2	20 pcs
48865 ES VWFL	4050300516653	35	12	GU5.3	60°	1100 cd	5000 h	2	20 pcs
48870 ES SP	4050300516677	50	12	GU5.3	10°	15000 cd	5000 h	2	20 pcs
48870 ES FL	4050300516691	50	12	GU5.3	24°	5700 cd	5000 h	2	20 pcs
48870 ES WFL	4050300516714	50	12	GU5.3	36°	2850 cd	5000 h	2	20 pcs
48870 ES VWFL	4050300516738	50	12	GU5.3	60°	1430 cd	5000 h	2	20 pcs

### OSRAM HALOSPOT® 111 ES, reflector lamp, dia. 111 mm

Product reference	Product no. (EAN)	Wattage	Voltage	Base	Beam angle	Lum int	Average life	Fig. no.	Pack
48832 SP	4050300656823	35	12	G53	8°	approx. 22500 cd	4000 h	3	6 pcs
48832 FL	4050300656847	35	12	G53	24°	approx. 4500 cd	4000 h	3	6 pcs
48835 SP	4050300656861	50	12	G53	8°	approx. 33000 cd	4000 h	3	6 pcs
48835 FL	4050300656885	50	12	G53	24°	approx. 5800 cd	4000 h	3	6 pcs
48835 WFL	4008321909237	50	12	G53	45°	approx. 2000 cd	4000 h	3	6 pcs
48837 SP	4050300786070	65	12	G53	8°	approx. 45000 cd	4000 h	3	6 pcs
48837 FL	4050300786094	65	12	G53	24°	approx. 8500 cd	4000 h	3	6 pcs

### ECGs for low-voltage halogen lamps

Product reference	Product no. (EAN)	Mains voltage	Mains current	Mains freq	Lamp wattage	Max. partial load range
<b>HALOTRONIC MOUSE®, compact design</b>						
HTM70/230-240	4050300442310	230V -10%/240V +6%	0.27A	50/60 Hz	70W	20-70W
HTM105/230-240	4050300442334	230V -10%/240V +6%	0.42A	50/60 Hz	105W	35-105W
HTM150/230-240	4050300581415	230V -10%/240V +6%	0.57A	50/60 Hz	150W	50-150W
<b>REDBACK TRANSFORMER®</b>						
ET-REDBACK 60W	4008321125798	230V -10%/240V+6%	-	50/60 Hz	60W	20-60W



## Guaranteed better light.

OSRAM ES low voltage halogen lamps can be operated with perfect results with the appropriate HALOTRONIC® & REDBACK control gear from OSRAM. In combination with HALOTRONIC® you get a 5 year guarantee on the ECG and 1 year on ES lamps from OSRAM (after registering the system and under certain conditions of use; for terms and conditions and information on registration go to [http://system-plus-guarantee.osram.info/en/en/guarantee\\_level3d.php](http://system-plus-guarantee.osram.info/en/en/guarantee_level3d.php)).

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