



Update
Dec. 2014

Light is motion

Light range 2014 / 2015

Vehicle lamps

Light is OSRAM

Quite simply the best solution

OSRAM provides the perfect vehicle lamp for every use and every requirement, be it in cars, motorcycles, trucks or off-road, be it LED, xenon or halogen, and whether for performance or design-oriented drivers.

Category	Highlight Feature	ECE/Range
	Innovative daytime running lights	-
	State-of-the-art headlights	-
	Wide range of different light colors	-
	Individual ambiances with different modules	-
	Practical, mobile and energy-efficient light sources	-
	Powerful and reliable lamps for cyclists	-
	Brightest OSRAM xenon lamp	D1S, D2S
	Extra-blue xenon light	D1S, D1R, D2S, D2R, D3S, D4S
	Four-year guarantee ¹⁾	D1S, D1R, D2S, D2R, D3S, D3R, D4S, D4R, D8S
	Brightest OSRAM halogen lamp	H1, H3, H4, H7, H11, HB3, HB4
	Best price-performance ratio	H1, H4, H7, H11
	Bluish-white light for xenon look	H1, H3, H4, H7, H8, H11, H15, HB3, HB4, W5W
	Only amber or red when operating	PY21W, WY5W, PR21W, PR21/5W
	Three-year guarantee ¹⁾	H1, H4, H7, P21W, PY21W, P21/5W, W5W, R5W, R10W, C5W, H6W
	OEM quality	Complete product range
	Vibration-resistant technology	H4, H7, HS1
	Vibration-resistant technology OEM quality	H4, H7, S1, S2, HS1
	Brightest OSRAM truck lamp	H1, H3, H4, H7, H11, PY21W, P21W, P21/5W, W5W, R5W, R10W, T4W
	OEM quality	Complete product range
	For even the most unusual requirements	-



Perfect match? Follow this sign!

We use this symbol to recommend products that are perfect fits for the lamps on a particular page.

¹⁾ Refer to www.osram.com/guarantee for precise conditions

All OSRAM 12 and 24 V halogen automotive lamps are UV-reduced, can replace existing lamps and meet the relevant standards, e.g. ECE R 37 (with the exception of OFF-ROAD lamps)

Ready for the future	04
LED Lighting	
LEDriving® daytime running light	08
LEDriving® fog light LEDriving® XENARC® Headlight	10
LED Retrofits	12
LEDambient® styling lights	16
LED Accessories	18
LEDsBIKE®	26
Xenon Lighting	
XENARC® NIGHT BREAKER® UNLIMITED	28
XENARC® COOL BLUE® INTENSE	30
XENARC® ORIGINAL	32
Car Lighting	
NIGHT BREAKER® UNLIMITED	34
SILVERSTAR® 2.0	36
COOL BLUE® INTENSE	38
DIADEM® CHROME DIADEM® DIADEM® DEEP AMBER	40
ULTRA LIFE	42
ORIGINAL LINE 12 V	44
Motorcycle Lighting	
NIGHT RACER® 110 NIGHT RACER® 50	48
X-RACER® ORIGINAL	50
Truck Lighting	
TRUCKSTAR® PRO	52
ORIGINAL LINE 24 V	54
Offroad Lighting	
SUPER BRIGHT PREMIUM SUPER BRIGHT COOL BLUE® HYPER	56
Spare lamp kit for passenger cars	58
Spare lamp kit for trucks and buses	60
Automotive Lamp Cabinet (ALC)	62
Shelf Rack MINIWATT® assortment box Survival Kit	64
A partner for retailers	66
POS product presentation and demonstration	67
Packaging Ordering units	70
Lamp overview	72
Bases	74
Index	76
Information	88
Summary of automotive lamp types and applications	91

Our ideas lead the way

As the world market leader in automotive lighting, OSRAM is setting the pace in the research and development of new types of lighting systems. The result is a number of technologies that are economical yet powerful, refined yet simple, enhancing both comfort and safety on the roads.



Laser – the future of headlights

Since the introduction of LED and OLED, laser light has been the next big step forward in automotive lighting. The advantage of laser technology is an extremely focused light, which allows for highly precise control. Moreover, its light-emitting surface is very small, facilitating the design of headlights much smaller than the models we know today. The BMW i8, to launch in the fall of 2014, will be the first production vehicle in the world to use laser headlights on public streets. As a system partner, OSRAM has made a decisive contribution in the development of this innovative laser technology. OSRAM has gained the expertise necessary in this field through its long-standing tradition with fluorescent materials and from its experience in similar laser-based systems for applications in medical technology (endoscopic equipment) and video projectors.

XENARC® – the beauty of light

Having conquered the top-of-the-range market, the fascinatingly bright xenon light has now moved into the mid-range market. With their innovative arc technology, XENARC® gas discharge lamps generate up to 100 % more light than halogen lamps at 300 % greater luminous efficacy. But modern lighting concepts from OSRAM offer far more than safe and comfortable driving. They underline personal lifestyles, demonstrate environmental awareness and stand for a new sensation in light.

LED – light on the fast lane

LED technology is also gaining ground in automotive lighting. In order to make the best use of the turnover potential of this huge future market, OSRAM developed the world's first standardized LED system in 2005 in the form of JOULE®, which leading car manufacturers now use for their new models. Now OSRAM is paving the way for LEDs to take over the mass market: The new OSRAM LED Automotive product range offers drivers innovative, stylish products with a high light effect and user value.

OLED – the start of a new light era

OLEDs (organic LEDs) offer completely new possibilities in lamp and luminaire design. As panel radiators, they are suitable for use as signal light, tail light or even in car interior lighting. The result: homogeneous light surfaces in all shapes and many colors, durable and energy efficient. Organic light emitting diodes are expected to be series products and out on the road as early as 2016. As an international market leader with outstanding expertise in the area of automotive lamps as well as semiconductor technology OSRAM is pointing the way to the future here as well.



Stay ahead of your competition

All the products and important applications, practical tools and useful services, current trends as well as interesting knowledge: The OSRAM website is all about the wide world of light. And for all car-lovers: Access to the Automotive area directly from the start page with a single click.

The special automotive section – special contents, tools and services

Whether you want powerful and stylish lighting, the latest trends or news hot off the press: the special automotive section on the OSRAM website offers you and your customers a wide range of information and options to stay up-to-date in the field of automotive lighting and to be inspired by interesting new experiences. Just open the “News & Knowledge” tab on our start page and locate the “Automotive Special” area on the bottom right.

Automotive Online tool – everything you need

The complete list of spare vehicle lamps – now including interior lighting: select the make, model and construction year of your car, truck, bus or motorcycle and get an overview of matching OSRAM lamps and their article numbers. (www.osram.com/vehiclelamps)

Carlight blog – the hot topic

For specialists in the field of automotive lighting and everybody interested in the latest trends and technologies – continuous, up-to-date exchange of information and opinions under various headings such as “News,” “Innovation,” “Technics,” “Law” or “Actions.”

“Vehicle Light” app – for smartphones

To ensure that you always know which lamp type is required for the vehicle, even while on the move – from dipped and full-beam headlights through indicator and brake lights to reversing lamps. For passenger car drivers and motorcyclists as well as numerous models for the most important truck and bus manufacturers.



“Light range 2014/2015” – always up-to-date

Scan the QR code to access our current catalog that's constantly updated.



Automotive Light Range (pdf)

OSRAM standard equipment: quality and sustainability

Whether consistent OEM quality, sustainable production or long-term guarantees, OSRAM automotive lamps will bring you and your customers significantly greater benefits.

Shining a light on OEM quality

Vehicle lamps by OSRAM are famous for their outstanding precision, reliable operation and impressive durability. They emit the ideal amount of light on the road and thereby contribute greatly to road safety. All lamps comply with the quality requirements of car manufacturers, thus surpassing the requirements set by European standards.

Total Quality Management

“Total Quality Management” (TQM) is the corporate principle by which OSRAM defines its quality standards. Our finished products, components and parts comply to these standards and they provide the requirements for optimizing our processes and organization. Compliance with this principle is ensured by the fact that our quality management system has been certified to ISO 9001 and our environmental management system to ISO 14001. The “Automotive Lighting” business segment and all lamp filaments produced for this business segment are certified according to TS 16949 (special quality management requirements for automotive suppliers).



Sustainable production for the sake of the environment

OSRAM uses as few hazardous substances as possible, saves energy at every opportunity and reduces the amount of packaging material wherever feasible. For us, environmental protection is much more than just meeting statutory requirements. Our comprehensive environmental management system ensures that our principles are always put into practice. As a member of the United Nations Global Compact, OSRAM is committed to ecologically and socially sustainable development throughout the world.

Long guarantee periods for vehicle lamps

OSRAM products are innovative and technologically high-quality items that are carefully tested and which are subject to strict monitoring by the OSRAM quality assurance system. That's why we are able to provide consumers with up to five years of guarantee for selected car lamps (for guarantee conditions see www.osram.com/guarantee).

Glossary of the most important lighting terms

Luminous flux Φ

Unit of measurement: lumen [lm]

Luminous flux Φ is the total radiated power emitted by a light source evaluated with the spectral sensitivity of the eye and the photometric radiation equivalent K_m .

Luminous intensity I

Unit of measurement: candela [cd]

Generally speaking, a light source emits its luminous flux Φ in different directions and at different intensities.

Luminous intensity is the luminous flux radiated in a specific direction (solid angle Ω).

Illuminance E

Unit of measurement: lux [lx]

Illuminance E is the ratio between the luminous flux and the area illuminated. An illuminance of 1 lx occurs when a luminous flux of 1 lm is evenly distributed over an area of 1 m².

Luminance L

Unit of measurement: candela per square meter [cd/m²]

The luminance L of a light source or an illuminated area is a measure of the impression of brightness.

Luminous efficacy η

Unit of measurement: lumens per watt [lm/W]

Luminous efficacy η indicates the efficiency with which the electrical power consumed is converted into light.

Color temperature

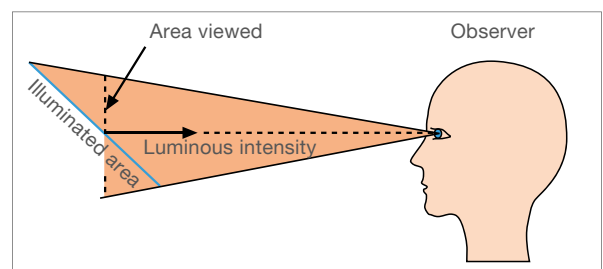
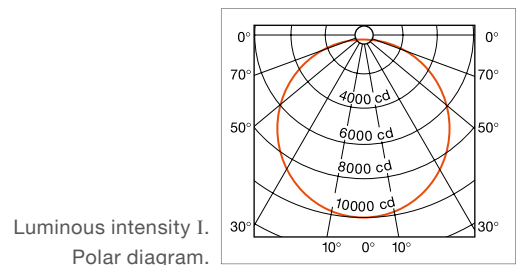
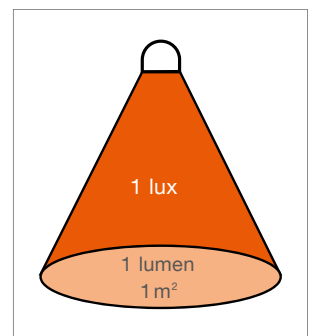
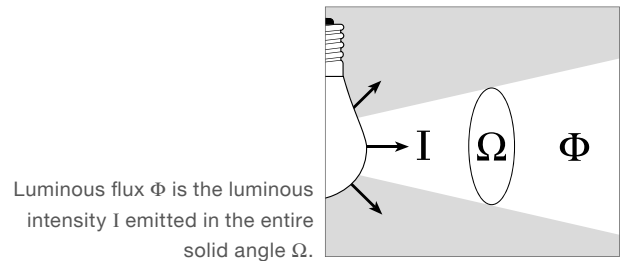
Unit of measurement: Kelvin [K]

The color temperature of a light source is defined in comparison with a "black body radiator" and plotted on what is known as the "Planckian curve." The higher the temperature of this black body radiator the greater the blue component in the spectrum and the smaller the red component. An incandescent lamp with warm white light, for example, has a color temperature of 2,700 K, whereas a daylight fluorescent lamp has 6,000 K.

Lamp life

The B₃ life-span value represents the premature failure rate of lamps. This means that 3 % of all tested lamps will have failed after this number of burning hours.

The T_c lifespan value represents the failure rate of 63.2 % of the lamps.



OSRAM LED daytime running lights

Stylish highlights for state-of-the-art headlights

Innovative, easy-to-install lightguide and pixel solutions with high-quality LED technology for low energy consumption and long lifetime: LEDriving® daytime running lights are the headlights of choice for drivers with an eye for design and tuning.



Main benefits of LEDriving® LG (LEDDRL102)

- Five-year guarantee ¹⁾
- LED daytime running light including position light
- Pixel-free brilliance and dynamic curves
- Color temperatures up to 6,000 K
- Long lifetime up to 5,000 h
- Dimmable
- Low energy consumption
- Easy installation
- OEM technology
- Compatible with start-stop system and hybrid vehicles

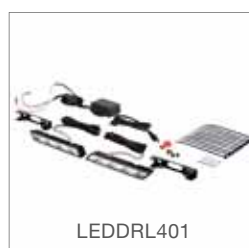
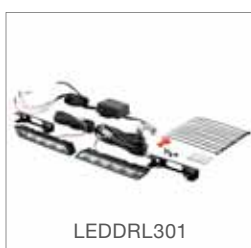
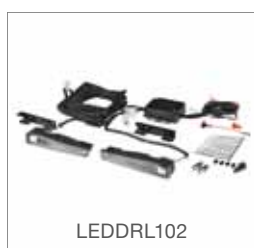
Main benefits of LEDriving® PX-5²⁾ (LEDDRL301/-CL15)

- Three-year guarantee ¹⁾
- Dynamic appearance thanks to faceted optic and dotted pixel technology
- Color temperatures up to 5,200 K
- Easy installation

Main benefits of LEDriving® PX-4 (LEDDRL401)

- Three-year guarantee ¹⁾
- Elegant, contemporary look with dotted pixel technology
- Color temperatures up to 6,000 K
- Easy installation

OSRAM LEDriving® daytime running light product range



Product Reference	Product Number	V	W	K	$\overset{\text{I}}{\text{[mm]}}$	$\overset{\text{b}}{\text{[mm]}}$	$\overset{\text{h}}{\text{[mm]}}$			
LEDDRL102 ³⁾	4052899 200494	12	15	6000	167	42	31	1	4	-
LEDDRL301	4008321 781215	12	13.5	5200	160	30	23	1	5	-
LEDDRL301 CL15 ³⁾	4052899 170766	12	13.5	5200	160	30	23	1	5	-
LEDDRL401 ³⁾	4052899 000070	12	13.5	6000	160	30	23	1	5	-

1) Refer to www.osram.com/am-guarantee for precise conditions

2) Two versions available: "Ripple" and "CL15"

3) Compatible with start-stop system and hybrid vehicles

OSRAM LEDriving® fog lights and LEDriving® XENARC® Headlight More highlights for modern headlights

LEDriving® FOG and LEDriving® F1 fog lights offer brilliant LED options for tuning and technology fans. LEDriving® XENARC® Headlight is a particularly impressive example of OSRAM's expertise: a xenon headlight and LED daytime running light in a single headlamp.



Main benefits of LEDriving® FOG (LEDFOG101)

- Five-year guarantee ¹⁾
- LED fog light with daytime running light functionality
- Lens resistant against gravel impact
- Automatic operation thanks to intelligent regulation
- Color temperatures up to 6,000 K
- Long lifetime up to 5,000 h
- Low energy consumption
- Easy installation
- Suitable for 12 V and 24 V onboard power supply systems
- OEM technology

Main benefits of LEDriving® F1 (LEDFOG201)

- Three-year guarantee ¹⁾
- LED fog light
- Lens resistant against gravel impact
- Easy installation thanks to built-in control box
- Color temperatures up to 6,000 K
- Long lifetime up to 5,000 h

Main benefits of LEDriving® XENARC® Headlight ²⁾ (LEDHL101)

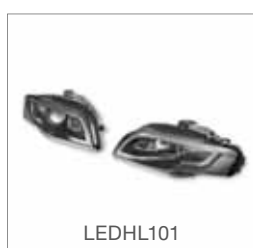
- Five-year guarantee ¹⁾
- Headlight with low-beam XENARC® ORIGINAL D8 lamp and LED daytime running light function

OSRAM LEDriving® fog light product range



Product Reference	Product Number	V	W	K	$\frac{l}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$			No.
LEDFOG101	4008321890566	12/24	7/12	6000	74	90	90	1	4	-
LEDFOG101-TY-M ³⁾	4052899094550	-	-	-	102	102	54	1	4	-
LEDFOG201	4052899197985	12	8	6000	100	95,9	90	1	2	-
LEDFOG201-TY-M ³⁾	4052899223394	-	-	-	148,5	132	153	1	4	-

OSRAM LEDriving® XENARC® Headlight product range



Product Reference	Product Number	V	W	K	$\frac{l}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$			No.
LEDH101 ⁴⁾	4052899933446	12	70	-	398.3	390	216.4	1	1	-

1) Refer to www.osram.com/am-guarantee for precise conditions

2) Headlight suitable for Audi A4 type B7 (2004-2008) in exchange for halogen headlight

3) Mounting bracket for corresponding Toyota car models. Installable to all Ø 90mm fog lamps, suitable for both H11 and H16

4) Coming soon

OSRAM LED Retrofits

Design sophistication for car interiors

OSRAM LED retrofit lamps for a multitude of applications in vehicle interiors illuminate with high color temperatures from 2,000K up to 6,800K. This illumination is non-selective thanks to homogeneous light. It comes with easy plug & play replacement, long lifetime, low energy consumption – and 100 % more style.



Main benefits of Premium Retrofits ¹⁾

- Five-year guarantee ²⁾
- Perfect LED light thanks to modern diffuser material
- Non-selective illumination thanks to homogeneous light
- Wide range of different light colors for a variety of customization options
- Maintenance-free thanks to long lifetime of up to 5,000 h
- Shockproof and vibration-proof
- Up to 80 % less energy consumption ³⁾
- Easy plug & play replacement
- Please note: These lamps are not approved for use on public roads. Use on public roads leads to cancellation of operating license and loss of insurance coverage

OSRAM LED Premium Retrofits product range¹⁾

Product Reference	Product Number	V	W			K	COLOR			No.
2850WW	4008321657633	12	1	W2.1x9.5d	-	4000	Warm White	2	10	67 ^{P.73}
2850CW	4008321657657	12	1	W2.1x9.5d	-	6000	Cool White	2	10	67 ^{P.73}
2850BL	4008321875549	12	1	W2.1x9.5d	-	6700	Ice Blue	2	10	67 ^{P.73}
2855YE	4008321875600	12	1	W2.1x9.5d	-	2000	Amber	2	10	71 ^{P.73}
3850WW	4008321657893	12	1	BA9s	-	4000	Warm White	2	10	87 ^{P.73}
3850CW	4008321658111	12	1	BA9s	-	6000	Cool White	2	10	87 ^{P.73}
6497WW	4052899068445	12	1	SV8.5-8	31	4000	Warm White	1	5	82 ^{P.73}
6497CW	4052899068469	12	1	SV8.5-8	31	6000	Cool White	1	5	82 ^{P.73}
6498WW	4008321658159	12	1	SV8.5-8	36	4000	Warm White	1	5	78 ^{P.73}
6498CW	4008321658173	12	1	SV8.5-8	36	6000	Cool White	1	5	78 ^{P.73}
6499WW	4052899068506	12	1	SV8.5-8	41	4000	Warm White	1	5	82 ^{P.73}
6499CW	4052899068483	12	1	SV8.5-8	41	6000	Cool White	1	5	82 ^{P.73}
7557YE	4052899212411	12	4	BAU15s	49.8	1500	Amber	1	5	54 ^{P.73}
7556WW	4052899212398	12	4	BA15s	49.8	3000	Warm White	1	5	49 ^{P.73}
7556CW	4052899212374	12	4	BA15s	49.8	6000	Cool White	1	5	49 ^{P.73}
2824WW	4008321875624	24	1	W2.1x9.5d	-	4000	Warm White	2	10	67 ^{P.73}
2824CW	4008321875648	24	1	W2.1x9.5d	-	6000	Cool White	2	10	67 ^{P.73}
3924WW	4008321875723	24	1	BA9s	-	4000	Warm White	2	10	87 ^{P.73}
3924CW	4008321875747	24	1	BA9s	-	6000	Cool White	2	10	87 ^{P.73}

1) OFF-ROAD only when used in an exterior application. These products do not have ECE approval. This means that they cannot be fitted in exterior lights if the vehicle is to be used on public roads

2) Refer to www.osram.com/am-guarantee for precise conditions

3) Compared with standard lamps



Main benefits of Standard Retrofits ¹⁾

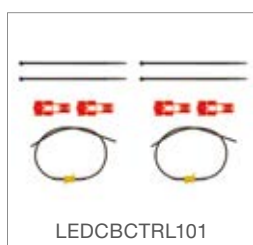
- Three-year guarantee ²⁾
- Two different light colors for a variety of customization options
- Non-selective illumination thanks to homogeneous light
- Durable thanks to long lifetime of up to 2,000 h
- Easy plug & play replacement
- Please note: These lamps are not approved for use on public roads. Use on public roads leads to cancellation of operating license and loss of insurance coverage

Main benefits of Canbus Control

- Three-year guarantee ²⁾
- Bypass of vehicle's outage detection system to avoid error messages in board computer when using an LED Retrofit lamp with 4W or 5W
- Stable light output
- Please note: These lamps are not approved for use on public roads. Use on public roads leads to cancellation of operating license and loss of insurance coverage

OSRAM LED Standard Retrofits product range¹⁾

Product Reference	Product Number	V	W			K	COLOR			No.
2880CW	4052899 067820	12	1	W2.1x9.5d	-	6000	Cool White	2	10	67 ^{P.73}
2880SW	4052899 067844	12	1	W2.1x9.5d	-	6700	Sky White	2	10	67 ^{P.73}
6431CW	4052899 192010	12	1	SV8.5-8	31	6000	Cool White	1	5	80 ^{P.73}
6431SW	4052899 192034	12	1	SV8.5-8	31	6700	Sky White	1	5	80 ^{P.73}
6436CW	4052899 192058	12	1	SV8.5-8	36	6000	Cool White	1	5	78 ^{P.73}
6436SW	4052899 192072	12	1	SV8.5-8	36	6700	Sky White	1	5	78 ^{P.73}
6441CW	4052899 192096	12	1	SV8.5-8	41	6000	Cool White	1	5	80 ^{P.73}
6441SW	4052899 192119	12	1	SV8.5-8	41	6700	Sky White	1	5	80 ^{P.73}

OSRAM Canbus Control product range¹⁾

Product Reference	Product Number	V	W			No.
LEDCBCTRL101	4052899 090873	12	5	2	10	-

1) OFF-ROAD only when used in an exterior application. These products do not have ECE approval. This means that they cannot be fitted in exterior lights if the vehicle is to be used on public roads

2) Refer to www.osram.com/am-guarantee for precise conditions

3) Compared with standard lamps

OSRAM LEDambient®

Stylish wireless ambient lighting

A must for design-oriented car drivers: The new innovative LEDambient® series offers highly flexible wireless lighting solutions, adding style to vehicle interiors at the touch of a button. All modules are rapidly and easily mounted and conveniently controlled via remote control. Seven attractive light colors and four adjustable brightness levels make it easy to create atmospheres with a personal touch.



Main benefits of LEDambient® wireless ambient lights

- Two-year guarantee ¹⁾
- Various applications thanks to four different modules: Door Entrance Ledge, Wallwasher, Spotlight, Standard Light Guide
- Wireless technology provides maximum flexibility
- Mounting is easy and requires no special tools ²⁾
- Intuitive user interface for remote control of modules
- Conveniently adjustable brightness and color: red, green, blue, orange, white, pink and turquoise
- Batteries rechargeable via USB port or car lighter

Main benefits of LEDambient® interior tuning lights

- Two-year guarantee ¹⁾
- Flexible 16-color LED strips with adhesive backing
- 24-button wireless remote control
- Dimmable and 4 flashing modes
- Adapter included for auto accessory plug-in

OSRAM LEDambient® interior wireless ambient light product range



Product Reference	Product Number	 COLOR	 l [mm]	 b [mm]	 h [mm]			 No.
LEDDEL101	4052899 074903	Multicolor	548	37	7.2	1	2	-
LEDINT101 ³⁾	4052899 074927	Multicolor	-	-	-	1	2	-
Wallwasher	-	Multicolor	123	55	17	-	-	-
Spot Module	-	Multicolor	60	41	22	-	-	-
Light Guide	-	Multicolor	600	Diameter 3.5	-	-	-	-
Remote Control	-	-	50	35	13	-	-	-

OSRAM LEDambient® interior tuning light product range



Product Reference	Product Number	 COLOR	 l [mm]	 b [mm]	 h [mm]			 No.
LEDINT201 ⁴⁾	4052899 933576	Multicolor	-	-	-	1	2	-
LEDINT202 ⁵⁾	4052899 933590	Multicolor	-	-	-	1	2	-

1) Refer to www.osram.com/am-guarantee for precise conditions

2) The OSRAM "Vehicle Light" app checks a vehicle's compatibility with the LEDambient® Door Entrance Ledge

3) LEDambient® kit consisting of three modules inclusive remote control: Wallwasher, Spotlight and Light Guide

4) Base kit

5) Extension kit – only works in combination with the base kit

OSRAM LEDinspect®

Innovative, bright and handy light

LEDinspect® Professional and LEDinspect® Slimline feature innovative technology and sophisticated functionality. They come with an attractive and robust design and a dirt-repellent surface. Both inspection lamps provide powerful light and are rechargeable via an AC 100~250V docking station.



Main benefits of LEDinspect® Professional¹⁾ (LEDIL101)

- Three-year guarantee²⁾
- 30 powerful, durable, high-performance LEDs
- Intense white light: 7,200 K, up to 1,500 lux at 0.5m
- Two lighting modes: 100 % and 60 % brightness
- Robust construction (drop test height: 2.5 m)
- Battery status display and charge protection
- Hand-free working thanks to magnet and retractable hook

Main benefits of LEDinspect® Slimline³⁾ (LEDIL102)

- Three-year guarantee²⁾
- Slim compact design, easy to use in tight spaces
- 17 powerful, durable, high performance LEDs
- Intense white light: 6,500 K, up to 200 lux at 0.5 m
- Easy to charge via mini USB port
- Robust construction (drop test height: 2.5 m)
- Low-battery warning light/battery charge status display
- Battery charge protection

OSRAM LEDinspect® product range



Product Reference	Product Number	V	W	lx	K	$\frac{l}{(mm)}$	$\frac{b}{(mm)}$	$\frac{h}{(mm)}$			 No.
LEDIL101	4052899 139909	5	2	1500 ⁴⁾	7200	276.5	47.5	51.7	1	4	-
LEDIL102	4052899 139947	5	2	200 ⁴⁾	6500	350	23	22	1	4	-

1) LEDinspect Professional Inspection Lamp Li-ion battery, ICR18650. The Li-ion battery for this product type is ICR18650, 3.7V, 4400mA, 16.28Wh. A standard Li-ion battery for LEDinspect professional lamp has weight about 90g

2) Refer to www.osram.com/am-guarantee for precise conditions

3) LEDinspect Slimline Inspection Lamp Li-ion battery, ICR14500. The Li-ion battery for this product type is ICR14500, 3.7V, 750mA, 2.78Wh. A standard Li-ion battery for LEDinspect Slimline lamp has weight about 18-22g

4) Up to

OSRAM LEDinspect®

Innovative, bright and handy light

Providing excellent illumination with up to 6,000 K for the inspection and maintenance of vehicles, LEDinspect® Foldable and LEDinspect® Mini complement the range of innovative LED inspection lamps by OSRAM.

Both lamps come with an easy-grip and dirt-resistant surface and allow hand-free working thanks to magnetic holder and hook.



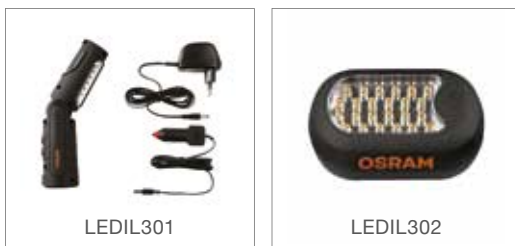
Main benefits of LEDinspect® Foldable¹⁾ (LEDIL301)

- Two-year guarantee²⁾
- Rechargeable LED inspection lamp with robust construction
- Equipped with 21+5 high-quality, long-lasting LEDs
- Illuminance: up to 1,200 lux at 0.5 m
- Rechargeable via 220 V adapter and 12 V cigarette lighter

Main benefits of LEDinspect® Mini³⁾ (LEDIL302)

- Two-year guarantee²⁾
- Battery-operated LED inspection lamp with robust construction
- Equipped with 24+3 high-quality, long-lasting LEDs
- Illuminance: up to 2,000 lux at 0.5 m
- Adjustable hook

OSRAM LEDinspect® product range



Product Reference	Product Number	V	W	lx	K	$\overset{\text{l}}{\text{mm}}$	$\overset{\text{b}}{\text{mm}}$	$\overset{\text{h}}{\text{mm}}$			
LEDIL301	4052899009592	4.5	1.5	2000 ⁴⁾	6000	220	46	51	1	10	-
LEDIL302	4052899009578	4.5	1.6	1200 ⁴⁾	6000	98	64	35	1	10	-

1) LEDinspect Foldable Inspection Lamp Ni-Mh battery An AAA Ni-MH battery is a standard size of rechargeable cell battery commonly used in portable electronic devices. AAA Ni-MH battery is a single cell and measures 44.5 mm in length and 10.5 mm in diameter. Rechargeable nickel -metal hydride (Ni-MH) AAAs typically weigh 12-15 g.

2) Refer to www.osram.com/am-guarantee for precise conditions

3) LEDinspect Mini Inspection Lamp AAA An AAA or triple-A battery is a standard size of dry cell battery commonly used in portable electronic devices. A triple-A battery is a single cell and measures 44.5 mm in length and 10.5 mm in diameter. Alkaline AAA batteries weigh around 11.5 grams each, while lithium AAAs weigh about 7.6 g.

4) Up to

OSRAM LED Accessories

ONYX Copilot® – good light for a good ride

OSRAM LED ONYX Copilot® is a flexible LED light that emits a pleasantly warm, glare-free light. With an appealing black design, the ONYX Copilot® is available in two versions, each with two neck lengths: ONYX M is powered via cigarette lighter, ONYX L comes with a plastic base for fixed connection.



Main benefits

- Two-year guarantee¹⁾
- Reading light with LED lamp for vehicle interior
- Pleasant warm and glare-free light
- Individual adjustment thanks to bendable neck
- Pleasantly soft, easy to grip and dirt-resistant surface
- Light can be switched on/off and remain connected permanently
- Luminous flux: 20 lm/m
- Service life (LED): up to 20,000 hours
- Two neck lengths available: 300 mm and 370 mm

OSRAM LED ONYX Copilot® product range



Product Reference	Product Number	V	W	lx	K	l (mm)	b (mm)	h (mm)			No.
ONYX M	40528990 11250	12/24	0.5	20	3200	300 ²⁾	25.4	9	1	4	-
ONYX M-7	40528990 77270	12/24	0.5	20	3200	370 ²⁾	25	9	1	4	-
ONYX L	40528990 11304	12/24	0.5	20	3200	300 ²⁾	25	9	1	4	-
ONYX L-7	40528990 77324	12/24	0.5	20	3200	370 ²⁾	25	9	1	4	-

1) Refer to www.osram.com/am-guarantee for precise conditions

2) Figure indicates length of neck, not overall length of product

LEDguardian® lights

Prepared for serious situations

Two lights that should accompany every trip. LEDguardian® Road Flare is a powerful emergency flare, for signalling serious situations and improving visibility. LEDguardian® Saver Light Plus is a multifunctional torch that includes a seat-belt cutter, life hammer and flashing LED warning lights.



Main benefits of LEDguardian® Road Flare ¹⁾

- Two-year guarantee ²⁾
- Two different modes and a torch function in one product
- Sixteen LEDs, red/yellow and white
- Two modes: red/yellow light – flashing and continuous-on
- Torch function: white light
- Visible at range of up to 240 m
- Crush-proof – doesn't break even when run over by a car ³⁾
- Fastened via magnet on back and key hang buckle

Main benefits of LEDguardian® Saver Light Plus ¹⁾

- Two-year guarantee ²⁾
- Easy to grip and dirt resistant surface
- Emergency hammer
- Seat belt knife
- Equipped with twelve high-quality, long-lasting LEDs
- Twelve flashing amber LEDs in handle as warning light
- Holder included for mounting in car
- Three magnets included for attachment to metal surfaces

OSRAM LEDguardian® Road Flare product range



Product Reference	Product Number	V	W	COLOR	l [mm]	b [mm]	h [mm]			No.
LEDSL301	4052899 092860	4.5	0.5	Red	110	42	-	1	24	-
LEDSL302	4052899 184053	4.5	0.5	Amber	110	42	-	1	24	-

OSRAM LEDguardian® Saver Light Plus product range



Product Reference	Product Number	V	W	COLOR	l [mm]	b [mm]	h [mm]			No.
LEDSL101	4052899 132344	3	1.7	Amber	180	63	53	1	6	-

1) Not approved as warning light according to German Road Traffic Licensing Regulations (StVZO). Do not use on public roads.

2) Refer to www.osram.com/am-guarantee for precise conditions

3) Tested in a mid-range car at walking pace

OSRAM bicycle lights

Light insurance for bikers

Battery level indicator, in compliance with German Road Traffic Regulations (StVO), rainproof and powerful, far-reaching light: OSRAM's innovative LED bicycle lights reliably ensure that cyclists see with improved visibility, thus contributing to a higher level of safety. LEDsBIKE® lights are available in a range of luminous intensities, from 70 lux to a flashing 2.4 lux.



Main benefits of LEDsBike® FX70 ¹⁾ (LEDBL101)

- Two-year guarantee ²⁾
- Front light
- Daytime running light function (DRL)
- Five different light settings: Extreme (225 lm), Power (135 lm), DRL (54 lm), Power + DRL, Eco + DRL
- Extremely wide illumination thanks to beam angle: 180°

Main benefits of LEDsBike® FX10 ¹⁾ (LEDBL301)

- Two-year guarantee ²⁾
- Front light
- Multifunctional use as a front bicycle light or torchlight

Main benefits of LEDsBike® FX35 ¹⁾ (LEDBL102)

- Two-year guarantee ²⁾
- Front light
- Three different light settings: extreme (155 lm), power (115 lm), Eco (57 lm)
- Wide illumination thanks to beam angle: 160°
- Wide range of light (illumination up to a distance of 40 m with width 4-5 m)

Main benefits of LEDsBike® RX2 (LEDBL302)

- Two-year guarantee ²⁾
- Rear light (lamp emits red light)
- Visible from a long distance

OSRAM LEDsBike® product range



Product Reference	Product Number										
LEDBL101	4052899 152731	2600mAh Li-ion	70	225	92	67	51	350	1	4	-
LEDBL102	4052899 152755	2x AA	35	155	110	46	36	96	1	8	-
LEDBL301	4052899 155534	4x AAA	10	80	110	28	28	105	1	6	-
LEDBL302	4052899 155558	2x AAA	2.4	4	70	40	35	48	1	6	-

1) Mounting bracket for handlebars 22-35 mm in diameter
 2) Refer to www.osram.com/guarantee for precise conditions

OSRAM XENARC® NIGHT BREAKER® UNLIMITED OSRAM's most powerful xenon car light

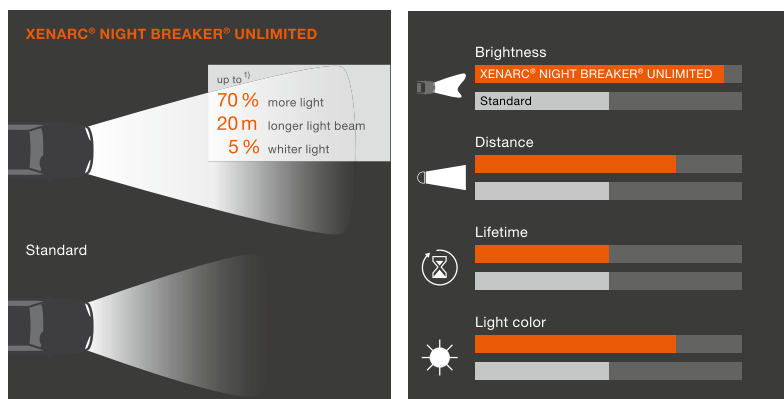
With up to 70 % more light on the road, these exceptional headlight lamps come with even whiter xenon light and a beam up to 20 meters longer than standard xenon lamps.



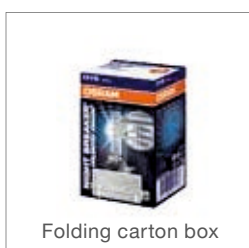
Main benefits

- Up to 70 % more light ¹⁾ for better visibility and significantly shorter reaction times
- Up to 20 m longer light beam ²⁾
- Up to 5 % whiter light ¹⁾
- Color temperatures up to 4,300 K
- ECE approval

XENARC® lamps should be replaced by a qualified mechanic.



OSRAM XENARC® NIGHT BREAKER® UNLIMITED product range



Product Reference	ECE	Product Number	V	W		lm	K	T _c			No.
66140XNB ³⁾	D1S ⁴⁾	4052899 047068	85	35	PK32d-2	3200 ⁵⁾	4300	3000	1	10	1 ^{P.72}
66240XNB ³⁾	D2S ⁴⁾	4052899 047082	85	35	P32d-2	3200 ⁵⁾	4300	3000	1	10	3 ^{P.72}
66240XNB-HCB ³⁾	D2S ⁴⁾	4052899 047105	85	35	P32d-2	3200 ⁵⁾	4300	3000	2	20	3 ^{P.72}



Perfect match: Premium LED Retrofits – brighter and more modern interior light

Up to 80 % less energy consumption and 100 % more style – first choice for design and tuning-oriented drivers. **See page 12**



- 1) When compared to standard xenon lamps
- 2) Depending on the headlamp system
- 3) To be operated only with approved electronic control gear
- 4) Reduced UV emission | For projection headlights | ECE approval and DOT label
- 5) ± 450 lm

OSRAM XENARC® COOL BLUE® INTENSE

Ultra-cool high-tech xenon design light

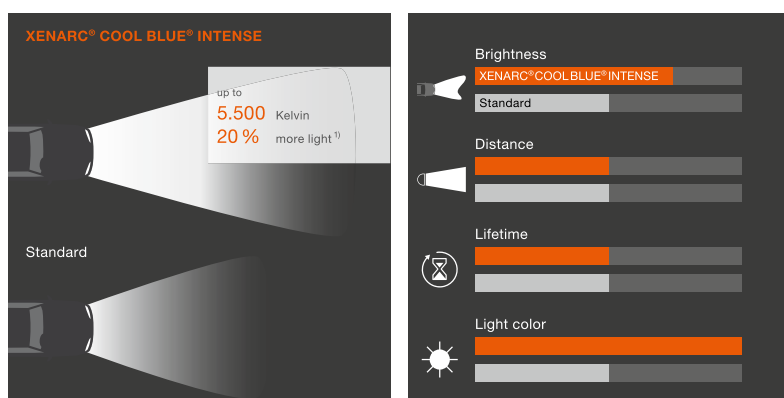
Exceptionally bright, high contrast and brilliantly blue with up to 5,500 K: innovative xenon light with highly efficient technology, brilliant effect and no-compromise design.



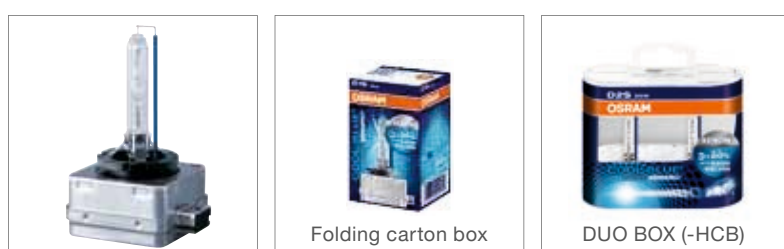
Main benefits

- Color temperatures up to 5,500 K
- Up to 20 % more light ¹⁾
- Extra blue light ²⁾
- Exceptionally bright
- Most stylish and modern look on the road

XENARC® lamps should be replaced by a qualified mechanic.



OSRAM XENARC® COOL BLUE® INTENSE product range



Product Reference	ECE	Product Number	V	W		lm	K	T _c			No.
66140CBI ³⁾	D1S ⁵⁾	4052899 220720	85	35	PK32d-2	3200 ⁶⁾	5500 ⁷⁾	3000	1	10	1 ^{P.72}
66154CBI ⁴⁾	D1R ⁵⁾	4008321 401373	85	35	PK32d-3	2800 ⁶⁾	5500 ⁷⁾	2000	1	10	2 ^{P.72}
66240CBI ³⁾	D2S ⁵⁾	4008321 401359	85	35	P32d-2	3200 ⁶⁾	5500 ⁷⁾	2800	1	10	3 ^{P.72}
66240CBI-HCB ³⁾	D2S ⁵⁾	4008321 588883	85	35	P32d-2	3200 ⁶⁾	5500 ⁷⁾	2800	2	20	3 ^{P.72}
66250CBI ⁴⁾	D2R ⁵⁾	4008321 401533	85	35	P32d-3	2800 ⁶⁾	5500 ⁷⁾	3000	1	10	4 ^{P.72}
66340CBI ³⁾	D3S ⁵⁾	4052899 148710	42	35	PK32d-5	3200 ⁶⁾	5000 ⁷⁾	3000	1	10	1 ^{P.72}
66440CBI ³⁾	D4S ⁵⁾	4052899 125582	42	35	P32d-5	3200 ⁶⁾	5000 ⁷⁾	3000	1	10	3 ^{P.72}
66440CBI-HCB ³⁾	D4S ⁵⁾	4052899 125612	42	35	P32d-5	3200 ⁶⁾	5000 ⁷⁾	3000	2	20	3 ^{P.72}



**Perfect match: OSRAM DIADEM®
CHROME – noticeably unnoticeable**

Exclusive innovative chrome-look signal lamps,
the ideal choice for design-conscious motorists.
See page 40



- 1) Compared with standard coated gas discharge lamps
- 2) From a special filling system instead of conventional coating
- 3) Reduced UV emission | For projection headlights | ECE approval and DOT label
- 4) Reduced UV emission | With anti-glare strip for reflection headlights | ECE approval and DOT label
- 5) To be operated only with approved electronic control gear
- 6) ± 450lm
- 7) Up to

OSRAM XENARC® ORIGINAL

A benchmark for modern xenon car light

With up to 4,500 K closer to the color temperature of natural daylight than conventional halogen light (3,200 K) and therefore easier on the eyes. Successfully used in millions of new automobiles from renowned manufacturers, whether as standard initial equipment or original spare parts. Latest innovation, OSRAM being the only manufacturer worldwide: the D8S, entirely mercury-free and with a power consumption of merely 25 W.

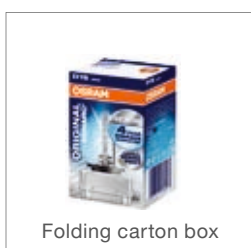


Main benefits

- Four-year guarantee ¹⁾
- OEM quality
- Impressive brightness and reliability

XENARC® lamps should be replaced by a qualified mechanic.

OSRAM XENARC® ORIGINAL product range



Folding carton box

Product Reference	ECE	Product Number	V	W		lm	K	T _c			No.
66140 ²⁾	D1S ⁴⁾	4008321184276	85	35	PK32d-2	3200 ⁵⁾	4300	3000	1	4	1 ^{P.72}
66154 ³⁾	D1R ⁴⁾	4008321184511	85	35	PK32d-3	2800 ⁵⁾	4300	3000	1	4	2 ^{P.72}
66240 ²⁾	D2S ⁴⁾	4008321184573	85	35	P32d-2	3200 ⁵⁾	4300	3000	1	4	3 ^{P.72}
66250 ³⁾	D2R ⁴⁾	4008321184634	85	35	P32d-3	2800 ⁵⁾	4300	3000	1	4	4 ^{P.72}
66340 ²⁾	D3S ⁴⁾	4052899199569	42	35	PK32d-5	3200 ⁵⁾	4300	3000	1	4	1 ^{P.72}
66350 ³⁾	D3R ⁴⁾	4008321129857	42	35	PK32d-6	2800 ⁵⁾	4300	3000	1	4	2 ^{P.72}
66440 ²⁾	D4S ⁴⁾	4008321349392	42	35	P32d-5	3200 ⁵⁾	4300	4000	1	4	3 ^{P.72}
66450 ³⁾	D4R ⁴⁾	4008321349576	42	35	P32d-6	2800 ⁵⁾	4300	3000	1	4	4 ^{P.72}
66548 ²⁾	D8S ⁴⁾	4008321787019	42	25	PK32d-1	2000 ⁶⁾	4500	3000	1	4	1 ^{P.72}

A perfectly matched OSRAM system solution with ballast, terminal and connecting cables is available for all XENARC® D1S/R, D3S/R and D8S lamps. Please consult your OSRAM contact if required.

1) Refer to www.osram.com/guarantee for precise conditions

2) Reduced UV emission | For projection headlights | ECE approval and DOT label

3) Reduced UV emission | With anti-glare strip for projection headlights | ECE approval and DOT label

4) To be operated only with approved electronic control gear

5) ± 450lm

6) ± 300lm

OSRAM NIGHT BREAKER® UNLIMITED

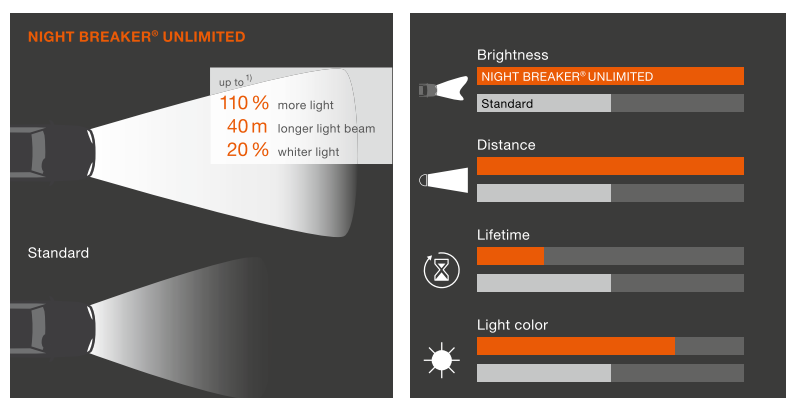
The strongest OSRAM halogen automotive light

With up to 110 % more light than standard lamps, the latest generation of the reliable NIGHT BREAKER® lamps outshines all other halogen automotive lamps in the market.

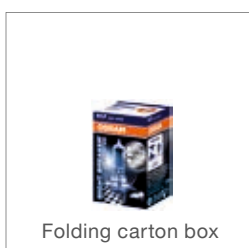


Main benefits

- Up to 110 % more light on the road ¹⁾
- Up to 40 m longer beam ¹⁾
- Up to 20 % whiter light ¹⁾
- Signs, obstacles and hazards are more rapidly recognized
- Longer reaction time
- Eye-catching design with partial blue coating and silver cap (H4/H7/H11/HB4)
- Precise filament position for better light distribution



OSRAM NIGHT BREAKER® UNLIMITED product range



Folding carton box



Single blister (-01B)



Double blister (-02B)



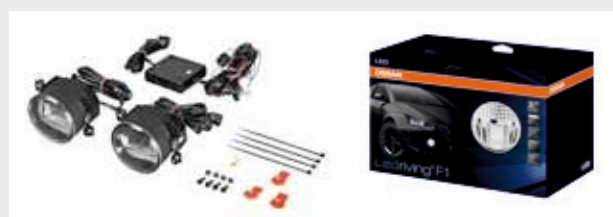
DUO BOX (-HCB)

Product Reference	ECE	Product Number	V	W				
64150NBU	H1	4052899016231	12	55	P14.5s	1	100	5 ^{P.72}
64150NBU-01B	H1	4052899016781	12	55	P14.5s	1	10	5 ^{P.72}
64150NBU-02B	H1	4052899016743	12	55	P14.5s	2	20	5 ^{P.72}
64150NBU-HCB	H1	4052899016286	12	55	P14.5s	2	20	5 ^{P.72}
64151NBU	H3	4052899016323	12	55	PK22s	1	100	9 ^{P.72}
64151NBU-01B	H3	4052899016729	12	55	PK22s	1	10	9 ^{P.72}
64193NBU	H4	4052899017122	12	60/55	P43t	1	100	14 ^{P.72}
64193NBU-01B	H4	4052899017177	12	60/55	P43t	1	10	14 ^{P.72}
64193NBU-02B	H4	4052899017191	12	60/55	P43t	2	20	14 ^{P.72}
64193NBU-HCB	H4	4052899017214	12	60/55	P43t	2	20	14 ^{P.72}
64210NBU	H7	4052899016972	12	55	PX26d	1	100	19 ^{P.72}
64210NBU-01B	H7	4052899017047	12	55	PX26d	1	10	19 ^{P.72}
64210NBU-02B	H7	4052899017023	12	55	PX26d	2	20	19 ^{P.72}
64210NBU-HCB	H7	4052899017061	12	55	PX26d	2	20	19 ^{P.72}
64211NBU	H11	4052899016392	12	55	PGJ19-2	1	100	29 ^{P.72}
64211NBU-01B	H11	4052899016804	12	55	PGJ19-2	1	10	29 ^{P.72}
9005NBU-HCB	HB3	4052899030756	12	60	P20d	2	20	35 ^{P.72}
9006NBU-HCB	HB4	4052899030817	12	51	P22d	2	20	36 ^{P.72}



Perfect match: LEDriving® FOG is the first to feature easy plug-and-play replacement

Technical upgrade and an additional function: fog light and daytime running light in one lamp.
See page 10



1) Compared with standard lamps

OSRAM SILVERSTAR® 2.0

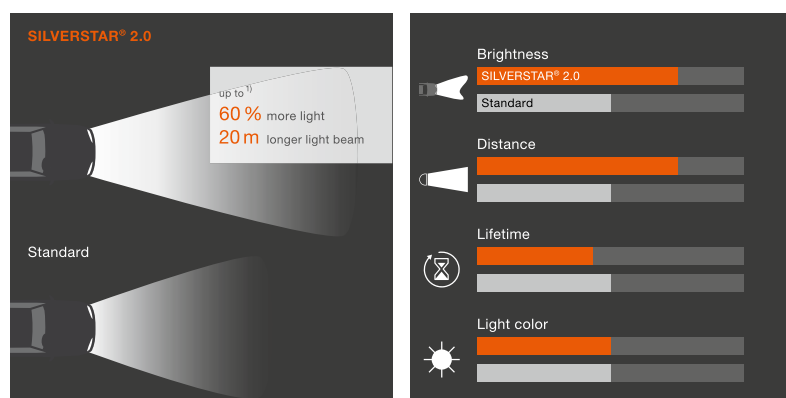
Excellent in every way

With up to 60 % more light than standard halogen lamps, an excellent choice for motorists with high demands for performance, safety and value for money.

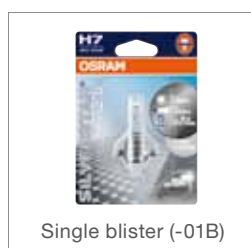
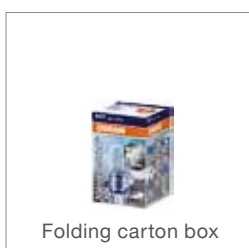


Main benefits

- Up to 60 % more light ¹⁾
- Up to 20 m longer beam ¹⁾
- Up to double the service life ²⁾
- Signs, obstacles and hazards are more rapidly recognized
- Longer reaction time
- Excellent value for money



OSRAM SILVERSTAR® 2.0 product range



Product Reference	ECE	Product Number	V	W				
64150SV2	H1	4008321785824	12	55	P14.5s	1	100	6 ^{P.72}
64150SV2-01B	H1	4008321785855	12	55	P14.5s	1	10	6 ^{P.72}
64150SV2-02B	H1	4008321785879	12	55	P14.5s	2	20	6 ^{P.72}
64150SV2-HCB	H1	4008321785893	12	55	P14.5s	2	20	6 ^{P.72}
64193SV2	H4	4008321785930	12	60/55	P43t	1	100	13 ^{P.72}
64193SV2-01B	H4	4008321785961	12	60/55	P43t	1	10	13 ^{P.72}
64193SV2-02B	H4	4008321785985	12	60/55	P43t	2	20	13 ^{P.72}
64193SV2-HCB	H4	4008321786005	12	60/55	P43t	2	20	13 ^{P.72}
64210SV2	H7	4008321786685	12	55	PX26d	1	100	21 ^{P.72}
64210SV2-01B	H7	4008321786715	12	55	PX26d	1	10	21 ^{P.72}
64210SV2-02B	H7	4008321786739	12	55	PX26d	2	20	21 ^{P.72}
64210SV2-HCB	H7	4008321786753	12	55	PX26d	2	20	21 ^{P.72}
64211SV2	H11	4008321787156	12	55	PGJ19-2	1	100	27 ^{P.72}
64211SV2-HCB	H11	4008321787187	12	55	PGJ19-2	2	20	27 ^{P.72}

1) Compared with standard lamps

2) Compared with previous model

OSRAM COOL BLUE® INTENSE

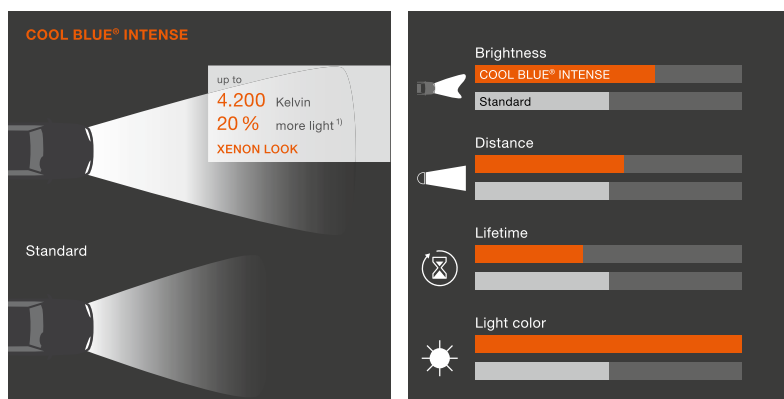
Cool light with a strong effect

Stylish xenon look and extra safety: High-tech halogen lamp, almost in the league of xenon lamps with their powerful bluish-white light.



Main benefits

- Bluish-white light for xenon look
- Color temperatures up to 4,200 K
- Up to 20 % brighter¹⁾
- Modern design with silver cap (H4/H7/H11/HB4)
- Ideal for use in clear-glass headlights
- **W5W with color temperatures up to 3,700 K (± 200 K)**
 - More homogeneous color appearance in combination with HID-systems
 - For interior lighting/parking light/license plate illumination, interchangeable with standard bulbs



OSRAM COOL BLUE® INTENSE product range



Product Reference	ECE	Product Number	V	W				
64150CBI	H1	4008321655325	12	55	P14.5s	1	100	7 ^{P.72}
64150CBI-01B	H1	4008321655424	12	55	P14.5s	1	10	7 ^{P.72}
64150CBI-02B	H1	4008321655448	12	55	P14.5s	2	20	7 ^{P.72}
64150CBI-HCB	H1	4008321650719	12	55	P14.5s	2	20	7 ^{P.72}
64151CBI	H3	4008321655462	12	55	PK22s	1	100	11 ^{P.72}
64193CBI	H4	4008321650894	12	60/55	P43t	1	100	12 ^{P.72}
64193CBI-01B	H4	4008321651280	12	60/55	P43t	1	10	12 ^{P.72}
64193CBI-02B	H4	4008321651303	12	60/55	P43t	2	20	12 ^{P.72}
64193CBI-HCB	H4	4008321650733	12	60/55	P43t	2	20	12 ^{P.72}
64210CBI	H7	4008321651341	12	55	PX26d	1	100	20 ^{P.72}
64210CBI-01B	H7	4008321651563	12	55	PX26d	1	10	20 ^{P.72}
64210CBI-02B	H7	4008321651372	12	55	PX26d	2	20	20 ^{P.72}
64210CBI-HCB	H7	4008321650757	12	55	PX26d	2	20	20 ^{P.72}
64212CBI-HCB	H8	4052899931077	12	35	PGJ19-1	2	20	30 ^{P.72}
64211CBI-HCB	H11	4008321650771	12	55	PGJ19-2	2	20	28 ^{P.72}
64176CBI ²⁾	H15	4052899932708	12	55/15	PGJ23t-1	1	100	24 ^{P.72}
9005CBI-HCB	HB3	4008321660282	12	60	P20d	2	20	34 ^{P.72}
9006CBI-HCB	HB4	4008321660305	12	51	P22d	2	20	39 ^{P.72}
2825HCBI	W5W	4008321650849	12	5	W2.1x9.5d	10	50	69 ^{P.73}
2825HCBI-02B	W5W	4008321650870	12	5	W2.1x9.5d	2	20	69 ^{P.73}



Perfect match: LEDambient® – individual light styling for vehicle interiors

A range of highly flexible wireless LED lighting solutions that can be mounted fast and easily.
See page 16



1) Compared with standard lamps, subjective perception | 2) Coming soon

OSRAM DIADEM® CHROME, DIADEM® and DIADEM® DEEP AMBER Setting signals with appealing design

Visual tuning for indicator and tail lamps: The signal lights only emit amber or red light during operation – making them the perfect, attractive light supplement for halogen and xenon headlamps.



Main benefits: DIADEM® CHROME

- Only amber when operating, otherwise almost invisible
- Chrome look thanks to cutting edge interference and absorber coating
- Exclusive design
- No irritating color effects
- Ideal for all indicator lights with clear covers

Main benefits: DIADEM®

- Lamps with amber or red light emission
- Opal look thanks to state-of-the-art interference coating
- Ideal for all indicator lights with clear covers
- Up to double the service life¹⁾

Main benefits: DIADEM® DEEP AMBER

- Lamp emits deep amber light, close to red color area
- Color temperature: up to 1,500 K
- Offers a higher contrast to sunlight compared to yellow coated standard lamps
- More contrast = More Visibility

OSRAM DIADEM® CHROME product range



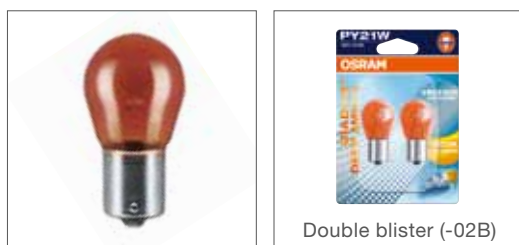
Product Reference	ECE	Product Number	V	W				
7507DC-02B ²⁾	PY21W	4008321972774	12	21	BAU15s	2	20	51 ^{P.73}
2827DC-02B ²⁾	WY5W	4008321972750	12	5	W2.1x9.5d	2	20	65 ^{P.73}

OSRAM DIADEM® product range



Product Reference	ECE	Product Number	V	W				
7507LDA ²⁾	PY21W	4008321137418	12	21	BAU15s	10	50	53 ^{P.73}
7507LDA-02B ²⁾	PY21W	4050300925486	12	21	BAU15s	2	20	53 ^{P.73}
7508LDR-01B ³⁾	PR21W	4008321376848	12	21	BAW15s	1	10	53 ^{P.73}
7538LDR-01B ³⁾	PR21/5W	4008321376862	12	21/5	BAW15d	1	10	56 ^{P.73}

OSRAM DIADEM® DEEP AMBER product range



Product Reference	ECE	Product Number	V	W				
7507DPA-02B ²⁾	PY21W	4052899218338	12	21	BAU15s	2	20	51 ^{P.73}

1) Compared with standard lamps

2) Amber lamps for clear indicator lights

3) Red light for clear tail/brake lights

OSRAM ULTRA LIFE

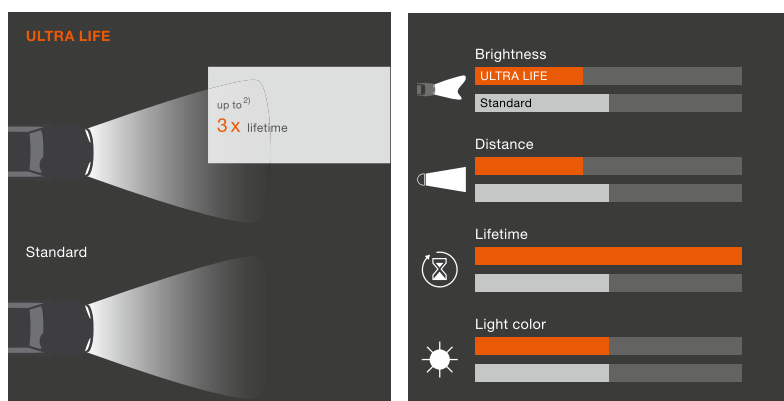
Longer life and wider spectrum

Up to three times longer service life than standard automotive lamps: OSRAM is the first manufacturer to provide a three-year guarantee¹⁾ for ULTRA LIFE headlight lamps.

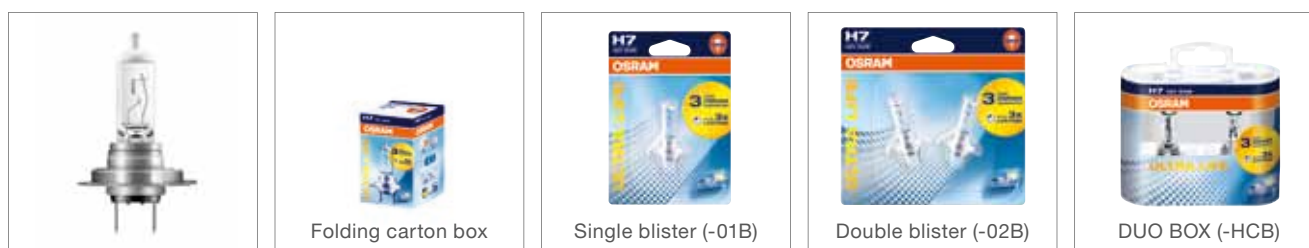


Main benefits

- Three-year guarantee¹⁾
- Up to three times longer service life²⁾
- Modern design with silver cap (H4/H7)
- Ideal for use in clear-glass headlights
- More reliability and longer replacement cycle
- Large range of headlight lamps and auxiliary bulbs



OSRAM ULTRA LIFE product range



Product Reference	ECE	Product Number	V	W				
64150ULT	H1	4008321416209	12	55	P14.5s	1	100	6 ^{P.72}
64150ULT-01B	H1	4008321416100	12	55	P14.5s	1	10	6 ^{P.72}
64150ULT-02B	H1	4008321416315	12	55	P14.5s	2	20	6 ^{P.72}
64150ULT-HCB	H1	4008321416162	12	55	P14.5s	2	20	6 ^{P.72}
64193ULT	H4	4008321416230	12	60/55	P43t	1	100	13 ^{P.72}
64193ULT-01B	H4	4008321416124	12	60/55	P43t	1	10	13 ^{P.72}
64193ULT-02B	H4	4008321416339	12	60/55	P43t	2	20	13 ^{P.72}
64193ULT-HCB	H4	4008321416186	12	60/55	P43t	2	20	13 ^{P.72}
64210ULT	H7	4008321416261	12	55	PX26d	1	100	21 ^{P.72}
64210ULT-01B	H7	4008321416087	12	55	PX26d	1	10	21 ^{P.72}
64210ULT-02B	H7	4008321416292	12	55	PX26d	2	20	21 ^{P.72}
64210ULT-HCB	H7	4008321416148	12	55	PX26d	2	20	21 ^{P.72}
7506ULT	P21W	4008321415349	12	21	BA15s	10	50	48 ^{P.73}
7506ULT-02B	P21W	4008321415141	12	21	BA15s	2	20	48 ^{P.73}
7507ULT ³⁾	PY21W	4008321413147	12	21	BAU15s	10	50	53 ^{P.73}
7507ULT-02B ³⁾	PY21W	4008321415165	12	21	BAU15s	2	20	53 ^{P.73}
7528ULT	P21/5W	4008321413116	12	21/5	BAY15d	10	50	51 ^{P.73}
7528ULT-02B	P21/5W	4008321415288	12	21/5	BAY15d	2	20	51 ^{P.73}
2825ULT	W5W	4008321413024	12	5	W2.1x9.5d	10	50	66 ^{P.73}
2825ULT-02B	W5W	4008321415189	12	5	W2.1x9.5d	2	20	66 ^{P.73}
5007ULT	R5W	4008321415370	12	5	BA15s	10	50	60 ^{P.73}
5007ULT-02B	R5W	4008321415202	12	5	BA15s	2	20	60 ^{P.73}
5008ULT	R10W	4008321415400	12	10	BA15s	10	50	60 ^{P.73}
5008ULT-02B	R10W	4008321415226	12	10	BA15s	2	20	60 ^{P.73}
6418ULT	C5W	4008321413086	12	5	SV8.5-8	10	50	77 ^{P.73}
6418ULT-02B	C5W	4008321415240	12	5	SV8.5-8	2	20	77 ^{P.73}
64132ULT	H6W	4008321413178	12	6	BAX9s	10	50	87 ^{P.73}
64132ULT-02B	H6W	4008321415325	12	6	BAX9s	2	20	87 ^{P.73}
64137ULT	HY21W	4052899910256	12	21	BAW9s	10	50	76 ^{P.73}

1) Refer to www.osram.com/am-guarantee for precise conditions | 2) Compared with standard lamps | 3) Amber lamps for clear indicator lights

OSRAM ORIGINAL LINE 12 V

Tried-and-tested originals for cars

Peak performance for standard requirements, reliable and cost-effective: Successfully used in millions of new cars from renowned manufacturers, whether as standard initial equipment or original spare parts.



Main benefits

- OEM quality
- Excellent value for money
- Impressive brightness and reliability

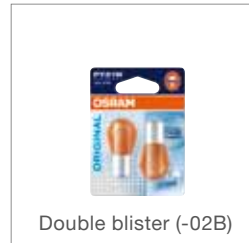
OSRAM ORIGINAL LINE 12V headlight lamps / auxiliary lamps product range



Folding carton box



Single blister (-01B)



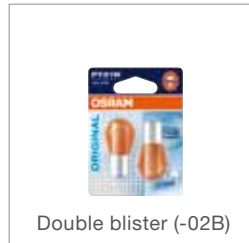
Double blister (-02B)

Product Reference	ECE	Product Number	V	W				
64150	H1	4050300001487	12	55	P14.5s	1	100	6 ^{P.72}
64150-01B	H1	4050300925264	12	55	P14.5s	1	10	6 ^{P.72}
64173	H2	4050300016559	12	55	X511	1	100	8 ^{P.72}
64151	H3	4050300001494	12	55	PK22s	1	100	10 ^{P.72}
64151-01B	H3	4050300925349	12	55	PK22s	1	10	10 ^{P.72}
64193	H4	4050300001470	12	60/55	P43t	1	100	17 ^{P.72}
64193-01B	H4	4050300925127	12	60/55	P43t	1	10	17 ^{P.72}
94193	H4	4050300019161	12	60/55	P43t	1	100	17 ^{P.72}
64210	H7	4050300332185	12	55	PX26d	1	100	22 ^{P.72}
64210-01B	H7	4050300925202	12	55	PX26d	1	10	22 ^{P.72}
64212	H8	4050300498751	12	35	PGJ19-1	1	100	30 ^{P.72}
64242 ¹⁾	H8B	4008321055422	12	35	PGJY19-1	1	100	26 ^{P.72}
64213	H9	4050300524368	12	65	PGJ19-5	1	100	31 ^{P.72}
64243 ¹⁾	H9B	4008321055477	12	65	PGJY19-5	1	100	32 ^{P.72}
9145RD	H10	4008321199799	12	42	PY20d	1	100	38 ^{P.72}
64211	H11	4050300524313	12	55	PGJ19-2	1	100	27 ^{P.72}
64211-01B	H11	4008321171252	12	55	PGJ19-2	1	10	27 ^{P.72}
64241 ¹⁾	H11B	4008321054654	12	55	PGJY19-2	1	100	26 ^{P.72}
9008	H13	4008321939401	12	60/55	P26.4t	1	10	41 ^{P.72}
64176	H15	4008321218391	12	55/15	PGJ23t-1	1	100	24 ^{P.72}
64219L+	H16	4008321626783	12	19	PGJ19-3	1	100	25 ^{P.72}
880	H27W/1	4008321542977	12	27	PG13	1	100	43 ^{P.73}
881	H27W/2	4008321543004	12	27	PGJ13	1	100	44 ^{P.73}
9003L	HB2	4050300308975	12	60/55	P43t	1	100	17 ^{P.72}
9005	HB3	4050300137193	12	60	P20d	1	100	33 ^{P.72}
9005-01B	HB3	4008321171214	12	60	P20d	1	10	33 ^{P.72}
9005XS	HB3A	0046135320408	12	60	P20d	1	100	37 ^{P.72}
9006	HB4	4050300012650	12	51	P22d	1	100	38 ^{P.72}
9006-01B	HB4	4008321171238	12	51	P22d	1	10	38 ^{P.72}
9006XS	HB4A	4008321554284	12	51	P20d	1	100	23 ^{P.72}
9007	HB5	4050300148816	12	65/55	PX29t	1	200	40 ^{P.72}
64185	HS1	4050300439969	12	35/35	PX43t	1	100	17 ^{P.72}
64183 ²⁾	R2	4050300350554	12	45/40	P45t	1	100	18 ^{P.72}
64183-01B ²⁾	R2	4050300925400	12	45/40	P45t	1	10	18 ^{P.72}
9011	HIR1	4008321863966	12	65	PX20d	1	100	45 ^{P.73}
9012	HIR2	4008321863997	12	55	PX20d	1	100	45 ^{P.73}

1) New development for simple relamping and high-efficiency headlamps; supply on request

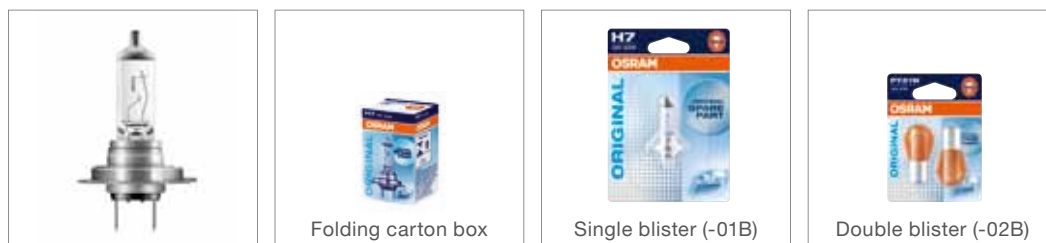
2) Successor type for BILUX®-AS® lamp (product reference 7951)

OSRAM ORIGINAL LINE 12V headlight lamps / auxiliary lamps product range



Product Reference	ECE	Product Number	V	W				
7506	P21W	4050300838120	12	21	BA15s	10	50	48 ^{P.73}
7506-02B	P21W	4050300925448	12	21	BA15s	2	20	48 ^{P.73}
7507 ¹⁾	PY21W	4050300891477	12	21	BAU15s	10	50	53 ^{P.73}
7507-02B ¹⁾	PY21W	4050300925462	12	21	BAU15s	2	20	53 ^{P.73}
7225	P21/4W	4050300891514	12	21/4	BAZ15d	10	50	51 ^{P.73}
7225-02B	P21/4W	4050300925547	12	21/4	BAZ15d	2	20	51 ^{P.73}
7240	-	4050300838007	12	21/5	BA15d	10	50	51 ^{P.73}
7528	P21/5W	4050300838069	12	21/5	BAY15d	10	50	51 ^{P.73}
7528-02B	P21/5W	4050300925523	12	21/5	BAY15d	2	20	51 ^{P.73}
3860	-	4008321095756	12	5	BA9s	10	50	88 ^{P.73}
3893	T4W	4050300838489	12	4	BA9s	10	50	89 ^{P.73}
3893-02B	T4W	4050300647609	12	4	BA9s	2	20	89 ^{P.73}
2820	-	4008321094094	12	2	W2.1x9.5d	10	50	66 ^{P.73}
2821	W3W	4050300838663	12	3	W2.1x9.5d	10	50	66 ^{P.73}
2821-02B	W3W	4050300925745	12	3	W2.1x9.5d	2	20	66 ^{P.73}
2825	W5W	4050300838632	12	5	W2.1x9.5d	10	50	66 ^{P.73}
2825-02B	W5W	4050300925684	12	5	W2.1x9.5d	2	20	66 ^{P.73}
2827 ¹⁾	WY5W	4050300891200	12	5	W2.1x9.5d	10	50	70 ^{P.73}
2827-02B ¹⁾	WY5W	4008321149411	12	5	W2.1x9.5d	2	20	70 ^{P.73}
2886X	-	4008321094667	12	6	W2.1x9.5d	10	50	66 ^{P.73}
921	W16W	4008321100948	12	16	W2.1x9.5d	10	50	73 ^{P.73}
921-02B	W16W	4008321349507	12	16	W2.1x9.5d	2	20	73 ^{P.73}
921NA	WY16W	4052899035652	12	16	W2.1x9.5d	10	50	74 ^{P.73}
7504	WY21W	4008321165473	12	21	WX3x16d	10	50	65 ^{P.73}
7505	W21W	4008321090652	12	21	W3x16d	10	50	64 ^{P.73}
7505-02B	W21W	4008321349521	12	21	W3x16d	2	20	64 ^{P.73}
7515	W21/5W	4008321090713	12	21/5	W3x16q	10	50	63 ^{P.73}
7515-02B	W21/5W	4008321662262	12	21/5	W3x16q	2	20	63 ^{P.73}
2721	-	4050300838540	12	1.2	W2x4.6d	10	50	72 ^{P.73}
2721-02B	-	4050300925769	12	1.2	W2x4.6d	2	20	72 ^{P.73}
2722	-	4008321094803	12	2	W2x4.6d	10	50	72 ^{P.73}
2722-02B	-	4050300925783	12	2	W2x4.6d	2	20	72 ^{P.73}
2723	W2.3W	4008321094834	12	2.3	W2x4.6d	10	50	72 ^{P.73}
64132	H6W	4008321094896	12	6	BAX9s	10	50	87 ^{P.73}
64136	H21W	4008321095190	12	21	BAY9s	10	50	75 ^{P.73}
5007	R5W	4050300838427	12	5	BA15s	10	50	60 ^{P.73}
5007-02B	R5W	4050300925585	12	5	BA15s	2	20	60 ^{P.73}
5008	R10W	4050300838212	12	10	BA15s	10	50	60 ^{P.73}
5008-02B	R10W	4050300925608	12	10	BA15s	2	20	60 ^{P.73}
5009	RY10W	4008321095442	12	10	BAU15s	10	50	61 ^{P.73}

OSRAM ORIGINAL LINE 12V headlight lamps / auxiliary lamps product range



Product Reference	ECE	Product Number	V	W				
6411	-	4050300891354	12	10	SV8.5-8	10	50	83 ^{P.73}
6411-02B	-	4050300925646	12	10	SV8.5-8	2	20	83 ^{P.73}
64111 ²⁾	-	4008321095015	12	5	BA9s	10	50	86 ^{P.73}
64113	-	4008321095046	12	10	BA9s	10	50	75 ^{P.73}
64115	-	4008321095077	12	20	BA9s	10	50	86 ^{P.73}
6413	-	4050300891439	12	5	SV8.5-8	10	50	83 ^{P.73}
6418	C5W	4050300838397	12	5	SV8.5-8	10	50	77 ^{P.73}
6418-02B	C5W	4050300925622	12	5	SV8.5-8	2	20	77 ^{P.73}
6438	-	4008321094353	12	10	SV8.5-8	10	50	81 ^{P.73}
6438-02B	-	4008321185389	12	10	SV8.5-8	2	20	81 ^{P.73}
6461	-	4008321094261	12	10	SV8.5-8	10	50	77 ^{P.73}
6428	-	4008321094384	12	3	SV7-8	10	50	79 ^{P.73}
2351MFX6	-	4008321096852	12	1.2	BX8.4d	10	50	90 ^{P.73}
2352MFX6	-	4008321097149	12	2	BX8.4d	10	50	90 ^{P.73}
2431MFX6	-	4008321298713	12	1.3	BX8.4d	10	50	90 ^{P.73}
2452MFX6	-	4008321097118	12	1.5	BX8.4d	10	50	90 ^{P.73}
2473MFX6	-	4008321096821	12	1.12	BX8.4d	10	50	90 ^{P.73}
2721MFX	-	4008321297150	12	1.2	BX8.5d	10	50	91 ^{P.73}
2722MFX	-	4008321297181	12	2	BX8.5d	10	50	91 ^{P.73}
2752MFX	-	4008321298782	12	1.5	BX8.5d	10	50	91 ^{P.73}
2721MF	-	4008321297150	12	1.2	B8.5d	10	50	91 ^{P.73}
2722MF	-	4008321096791	12	2	B8.5d	10	50	91 ^{P.73}
2752MF	-	4008321096760	12	1.5	B8.5d	10	50	91 ^{P.73}
3156	P27W	4008321090621	12	27	W2.5x16d	10	50	57 ^{P.73}
3157	P27/7W	4008321090683	12	27/7	W2.5x16q	10	50	58 ^{P.73}
3757AK	PY27/7W	4052899178731	12	27/7	W2.5x16q	10	50	59 ^{P.73}

- 1) Amber lamps for clear indicator lights
 2) Also available with glass base
 (product reference 6411150 or 6411350)

The suffix on the product reference indicates the board thickness:

MFX6: 1.5 mm

MF: 2.0 mm

MFX: 1.5 mm

OSRAM motorcycle lamps

Take a ride on the light side

Power and emotion, for relaxed cruisers and sportive riders: In NIGHT RACER® 110, NIGHT RACER® 50, X-RACER® and ORIGINAL, OSRAM offers a wide range of high performance motorcycle lamps – opening a new dimension for life on two wheels.

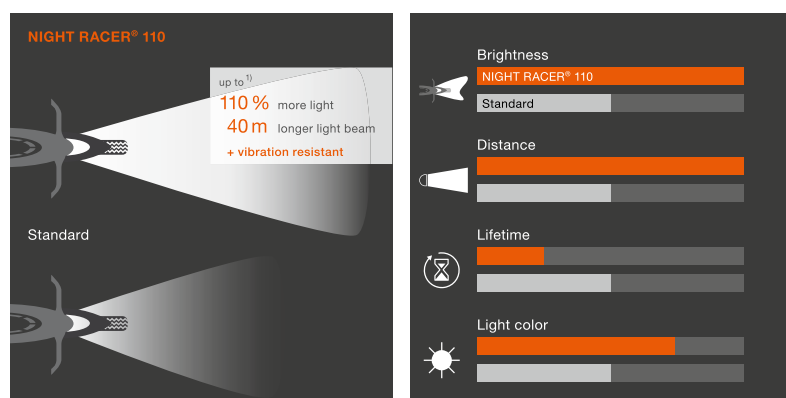


Main benefits of NIGHT RACER® 110

- Vibration-resistant technology
- Up to 110 % more light on the road ¹⁾
- Up to 40 m longer light beam ¹⁾
- Up to 20 % whiter light ¹⁾
- Eye-catching design with partial blue coating and silver cap

Main benefits of NIGHT RACER® 50

- Vibration-resistant technology
- Up to 50 % more light ¹⁾
- Up to 20 m longer beam ¹⁾
- Hazards more rapidly recognized
- Longer reaction time
- Modern design with silver cap
- Excellent value for money

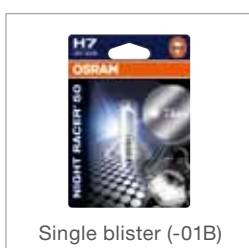


OSRAM NIGHT RACER® 110 product range



Product Reference	ECE	Product Number	V	W				 No.
64193NR1-01B	H4	4052899 929654	12	60/55	P43t	1	10	14 ^{P.72}
64193NR1-02B	H4	4052899 929678	12	60/55	P43t	2	20	14 ^{P.72}
64210NR1-01B	H7	4052899 929593	12	55	PX26d	1	10	19 ^{P.72}
64210NR1-02B	H7	4052899 929616	12	55	PX26d	2	20	19 ^{P.72}

OSRAM NIGHT RACER® 50 product range



Product Reference	ECE	Product Number	V	W				 No.
64193NR5-01B	H4	4052899 929524	12	60/55	P43t	1	10	16 ^{P.72}
64210NR5-01B	H7	4052899 929470	12	55	PX26d	1	10	21 ^{P.72}
64185NR5-01B	HS1	4052899 929425	12	35/35	PX43t	1	10	16 ^{P.72}
64185NR5	HS1	4052899 933002	12	35/35	PX43t	1	10	16 ^{P.72}

1) Compared with standard lamps

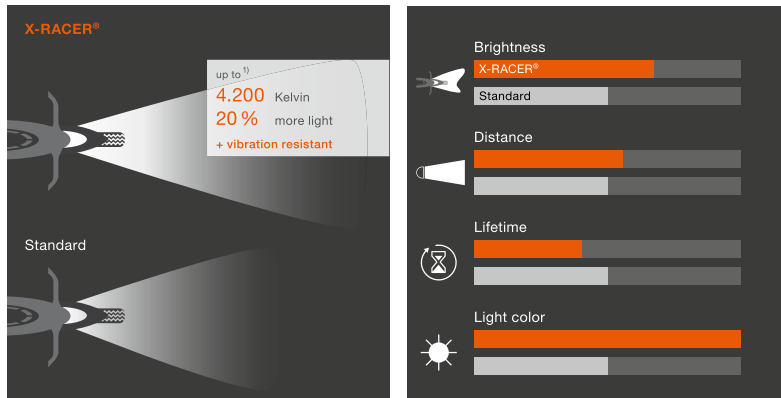


Main benefits of X-RACER®

- Vibration-resistant technology
- Bluish-white light for xenon look
- Color temperatures up to 4,200 K
- Up to 20 % more light ¹⁾
- Bright, convenient light for drivers
- Modern design with silver cap

Main benefits of ORIGINAL

- OEM quality
- Excellent value for money
- Impressive brightness and reliability
- Up to four times longer service life and no blackening (S1/S2) ¹⁾



OSRAM X-RACER® product range



Product Reference	ECE	Product Number	V	W				
64193XR-02B	H4	4052899 929630	12	60/55	P43t	2	20	15 ^{P.72}
64210XR-02B	H7	4052899 929579	12	55	PX26d	2	20	20 ^{P.72}

OSRAM ORIGINAL product range



Product Reference	ECE	Product Number	V	W				
64326	S1	4052899 157774	12	25/25	BA20d	1	100	47 ^{P.73}
64327	S2	4052899 136755	12	35/35	BA20d	1	100	47 ^{P.73}
64327-01B	S2	4052899 929692	12	35/35	BA20d	1	10	47 ^{P.73}
64185	HS1	4050300 439969	12	35/35	PX43t	1	100	17 ^{P.72}

1) Compared with standard lamps

OSRAM TRUCKSTAR® PRO

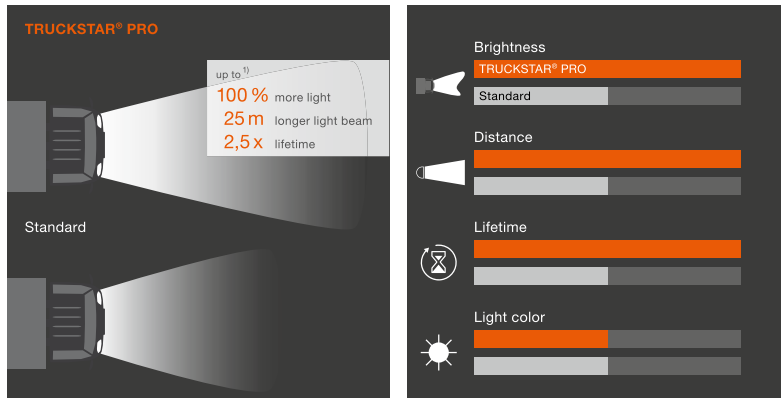
Robust power packs for professional requirements

Up to 100 % more light than standard lamps, extremely long life and very high vibration resistance are ideal for professional drivers while reducing downtime and fleet costs.

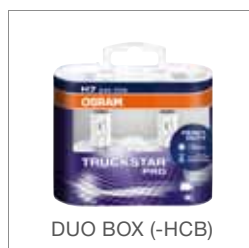
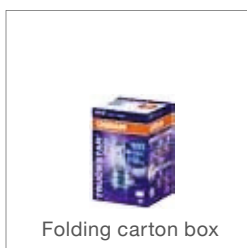


Main benefits

- Up to 100 % more light ¹⁾
- More than double the service life ¹⁾
- Improved road illumination
- Excellent value for money
- Impressive brightness and reliability
- Suitable for heavy-duty applications thanks to very high vibration resistance



OSRAM TRUCKSTAR® PRO product range



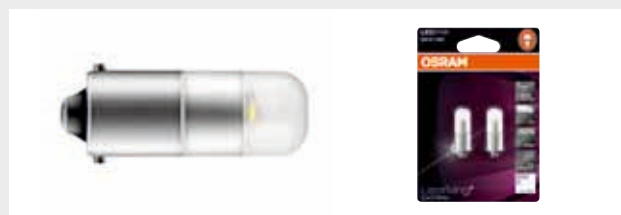
Product Reference	ECE	Product Number	V	W				No.
64155TSP	H1	4008321784179	24	70	P14.5s	1	100	6 ^{P.72}
64155TSP-HCB	H1	4008321784209	24	70	P14.5s	2	20	6 ^{P.72}
64156TSP	H3	4008321784261	24	70	PK22s	1	100	10 ^{P.72}
64156TSP-HCB	H3	4008321784292	24	70	PK22s	2	20	10 ^{P.72}
64196TSP	H4	4008321785046	24	75/70	P43t	1	100	17 ^{P.72}
64196TSP-HCB	H4	4008321785077	24	75/70	P43t	2	20	17 ^{P.72}
64215TSP	H7	4008321785114	24	70	PX26d	1	100	22 ^{P.72}
64215TSP-HCB	H7	4008321785145	24	70	PX26d	2	20	22 ^{P.72}
64216TSP	H11	4052899904804	24	70	PGJ19-2	1	100	27 ^{P.72}
64216TSP-HCB	H11	4052899904644	24	70	PGJ19-2	2	20	27 ^{P.72}
7510TSP	PY21W	4008321798169	24	21	BAU15s	10	50	53 ^{P.73}
7511TSP	P21W	4008321798107	24	21	BA15s	10	50	50 ^{P.73}
7537TSP	P21/5W	4008321798138	24	21/5	BAY15d	10	50	51 ^{P.73}
2845TSP	W5W	4008321798077	24	5	W2.1x9.5d	10	50	66 ^{P.73}
5627TSP	R5W	4008321795151	24	5	BA15s	10	50	62 ^{P.73}
5637TSP	R10W	4008321795205	24	10	BA15s	10	50	62 ^{P.73}
3930TSP	T4W	4008321795106	24	4	BA9s	10	50	89 ^{P.73}



**Perfect match: Premium 24 V LED Retrofits
 – a more modern and efficient interior
 light for trucks**

For interior applications, easy to install: brighter light
 with up to 80 % less energy consumption.

See page 12



1) Compared with standard lamps

OSRAM ORIGINAL LINE 24 V

Proven classics for trucks

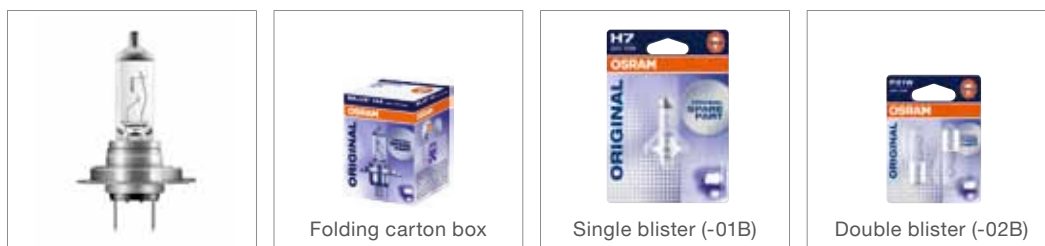
Continuously safe and reliable: A balanced and economic solution for all standard requirements in the 24 V sector. Successfully used in millions of new vehicles from renowned manufacturers, whether as standard initial equipment or original spare parts.



Main benefits

- OEM quality
- Excellent value for money
- Impressive brightness and reliability

OSRAM ORIGINAL LINE 24V headlight lamps / auxiliary lamps product range



Product Reference	ECE	Product Number	V	W				
64155	H1	4050300016498	24	70	P14.5s	1	100	6 ^{P.72}
64155-01B	H1	4050300925844	24	70	P14.5s	1	10	6 ^{P.72}
64175	H2	4050300218960	24	70	X511	1	100	8 ^{P.72}
64156	H3	4050300016535	24	70	PK22s	1	100	10 ^{P.72}
64156-01B	H3	4050300565811	24	70	PK22s	1	10	10 ^{P.72}
64196	H4	4050300016542	24	75/70	P43t	1	100	17 ^{P.72}
64196-01B	H4	4050300925868	24	75/70	P43t	1	10	17 ^{P.72}
94196	H4	4050300250632	24	75/70	P43t	1	100	17 ^{P.72}
64215	H7	4050300386522	24	70	PX26d	1	100	22 ^{P.72}
64215-01B	H7	4050300925882	24	70	PX26d	1	10	22 ^{P.72}
64177	H15	4008321536556	24	20/60	PGJ23t-1	1	100	24 ^{P.72}
7511	P21W	4050300838090	24	21	BA15s	10	50	50 ^{P.73}
7511-02B	P21W	4050300925929	24	21	BA15s	2	20	50 ^{P.73}
7537	P21/5W	4050300838038	24	21/5	BAY15d	10	50	51 ^{P.73}
7537-02B	P21/5W	4050300925943	24	21/5	BAY15d	2	20	51 ^{P.73}
7529	-	4050300891774	24	15	BA15s	10	50	48 ^{P.73}
5626	R5W	4008321095336	24	5	BA15d	10	50	62 ^{P.73}
5627	R5W	4050300838335	24	5	BA15s	10	50	62 ^{P.73}
5627-02B	R5W	4050300925967	24	5	BA15s	2	20	62 ^{P.73}
5637	R10W	4050300831459	24	10	BA15s	10	50	62 ^{P.73}
5637-02B	R10W	4050300926049	24	10	BA15s	2	20	62 ^{P.73}
3930	T4W	4050300838366	24	4	BA9s	10	50	89 ^{P.73}
3930-02B	T4W	4050300926001	24	4	BA9s	2	20	89 ^{P.73}
64138	H21W	4008321094988	24	21	BAY9s	10	50	75 ^{P.73}
2341	-	4008321132529	24	1	W2x4.6d	10	50	66 ^{P.73}
2840	-	4008321094698	24	2	W2.1x9.5d	10	50	66 ^{P.73}
2841	W3W	4008321094728	24	3	W2.1x9.5d	10	50	66 ^{P.73}
2841-02B	W3W	4050300926025	24	3	W2.1x9.5d	2	20	66 ^{P.73}
2845	W5W	4050300891552	24	5	W2.1x9.5d	10	50	66 ^{P.73}
2845-02B	W5W	4008321139962	24	5	W2.1x9.5d	2	20	66 ^{P.73}
2741	-	4050300838519	24	1.2	W2x4.6d	10	50	72 ^{P.73}
6421	-	4008321090768	24	3	SV8.5-8	10	50	83 ^{P.73}
6423-02B	C5W	4050300925981	24	5	SV8.5-8	2	20	77 ^{P.73}
6424	-	4050300891712	24	5	SV8.5-8	10	50	83 ^{P.73}
6429	-	4008321090836	24	10	SV8.5-8	10	50	83 ^{P.73}
6430	-	4008321094414	24	3	SV7-8	10	50	79 ^{P.73}
7244	-	4008321091123	24	18/5	BAY15d	10	50	51 ^{P.73}
2741MF	-	4050300891606	24	1.2	B8.5d	10	50	91 ^{P.73}
2741MFX	-	4008321297211	24	1.2	BX8.5d	10	50	91 ^{P.73}

The suffix on the product reference indicates the board thickness:

MF: 2.0 mm

MFX: 1.5 mm

OSRAM SPECIAL OFF-ROAD LAMPS

Where the streets have no name

With a strong portfolio of high-wattage off-road lamps, OSRAM provides solutions for even the most unusual requirements. All lamps are designed and designated for off-road use only and not permitted on public roads ¹⁾.



Main benefits of SUPER BRIGHT/PREMIUM¹⁾

- Rugged and versatile
- Excellent reliability and brightness even on the most difficult terrain: rescue services, construction and transport work, agriculture and forestry
- SUPER BRIGHT PREMIUM:
 - assortment with all standard base types
- SUPER BRIGHT:
 - assortment with special base types
- Please note: These lamps are not approved for use on public roads. Use on public roads leads to cancellation of operating license and loss of insurance coverage

Main benefits of COOL BLUE® HYPER¹⁾

- Color temperatures up to 5,000 K
- For design-conscious off-road drivers
- Please note: These lamps are not approved for use on public roads. Use on public roads leads to cancellation of operating license and loss of insurance coverage

OSRAM SUPER BRIGHT PREMIUM / SUPER BRIGHT high-performance headlamps¹⁾ – product range

Folding carton box

Product Reference	Product Number	V	W				No.
62200SBP	4052899 126282	12	100	P14.5s	1	100	6 ^{P.72}
62201SBP	4052899 126312	12	100	PK22s	1	100	10 ^{P.72}
62204SBP	400832 1856357	12	100/90	P43T	1	100	17 ^{P.72}
62261SBP	400832 1856388	12	80	PX26D	1	100	22 ^{P.72}
69005SBP	400832 1888174	12	100	P20D	1	100	33 ^{P.72}
69006SBP	400832 1888228	12	80	P22D	1	100	38 ^{P.72}
64152SB	4050300 222738	12	100	PX14.5s	1	100	6 ^{P.72}
64153SB	4050300 222837	12	100	PKY22s	1	100	10 ^{P.72}
64194SB	4050300 225852	12	100/90	PU43T	1	100	17 ^{P.72}
64204SB	4052899 931565	12	100/90	P45T	1	100	17 ^{P.72}
64198SB	4050300 222028	12	60/55	P45T	1	100	18 ^{P.72}

OSRAM COOL BLUE® HYPER high-performance headlamps¹⁾ – product range

DUO BOX (-HCB)

Product Reference	Product Number	V	W				No.
62150CBH-HCB	400832 1276568	12	55	P14.5s	2	20	7 ^{P.72}
62151CBH-HCB	400832 1580511	12	70	PK22s	2	20	11 ^{P.72}
62193CBH-HCB	400832 1276582	12	60/55	P43t	2	20	15 ^{P.72}
62210CBH-HCB	400832 1276629	12	55	PX26d	2	20	20 ^{P.72}



Perfect match: approved alternatives for drivers demanding more from light

NIGHT BREAKER® UNLIMITED and COOL BLUE® INTENSE ranges of lamps in the 12 V sector.
See page 34/38



1) These products do not have ECE approval. This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public roads.

OSRAM MINIBOX

Mobile lamp replacement

Defects in a vehicle usually make themselves known on long journeys. The OSRAM MINIBOX saves you the trouble of searching for a suitable workshop to purchase replacement lamps. You can therefore easily fix the problem yourself.



Main benefits

- With the lamp kit you'll always have the right spare lamps to hand
- Easy identification with clear labeling and application illustration



reddot design award
winner 2009

OSRAM MINIBOX product range



H1 box

The H1 box is equipped with one H1 headlight lamp and contains the following five most important spare lamps and three flat fuses.

Product Number: 4050300875217

Product Reference

ECE



64150	H1	Headlight
7506	P21W	Brake and tail light
7507	PY21W	Indicator light, amber
7528	P21/5W	Brake/tail light
5007	R5W	Tail light and numberplate light
2825	W5W	Parking light



H4 box

The H4 box is equipped with one H4 headlight lamp and contains the following five most important spare lamps and three flat fuses.

Product Number: 4050300873398

Product Reference

ECE



64193	H4	Headlight
7506	P21W	Brake and tail light
7507	PY21W	Indicator light, amber
7528	P21/5W	Brake/tail light
5007	R5W	Tail light and numberplate light
2825	W5W	Parking light



H7 box

The H7 box is equipped with one H7 headlight lamp and contains the following five most important spare lamps and three flat fuses.

Product Number: 4050300876375

Product Reference

ECE



64210	H7	Headlight
7506	P21W	Brake and tail light
7507	PY21W	Indicator light, amber
7528	P21/5W	Brake/tail light
5007	R5W	Tail light and numberplate light
2825	W5W	Parking light

OSRAM spare lamp kit 24V

Reserve light for trucks and buses

Professional truck drivers in particular rely on spare lamp kits from OSRAM. They can be used to repair faults without assistance or major work, wherever required.



Main benefits

- With the spare lamp kits you've always got the right spare lamps to hand
- Easy identification with clear labeling and application illustration

OSRAM spare lamp box, 24V range



H4 box

The H4 box is equipped with two H4 headlight lamps and contains the following double sets of the six most important spare lamps and three flat fuses.

Product Number: 4008321583192

Product Reference

ECE

i

64196	H4	Headlight
7511	P21W	Brake and tail light
7510TSP	PY21W	Indicator light, amber
7537	P21/5W	Brake/tail light
5627	R5W	Tail light and numberplate light
5637	R10W	Parking light
3930	T4W	Park and position light
15 A, 20 A, 30 A flat fuses		



H7 TRUCKSTAR® PRO box

The TRUCKSTAR® PRO box is equipped with two H7 TRUCKSTAR® PRO headlight lamps and contains the following double sets of the six most important spare lamps and three flat fuses.

Product Number: 4008321809063

Product Reference

ECE

i

64215TSP	H7	Headlight
7511	P21W	Brake and tail light
7510TSP	PY21W	Indicator light, amber
7537	P21/5W	Brake/tail light
5627	R5W	Tail light and numberplate light
5637	R10W	Parking light
3930	T4W	Park and position light
15 A, 20 A, 30 A flat fuses		



H7 box

The H7 box is equipped with two H7 headlight lamps and contains the following double sets of the six most important spare lamps and three flat fuses.

Product Number: 4008321583215

Product Reference

ECE

i

64215	H7	Headlight
7511	P21W	Brake and tail light
7510TSP	PY21W	Indicator light, amber
7537	P21/5W	Brake/tail light
5627	R5W	Tail light and numberplate light
5637	R10W	Parking light
3930	T4W	Park and position light
15 A, 20 A, 30 A flat fuses		

OSRAM Automotive Lamp Cabinet

Perfect order for easy access

Robust construction, individual stocking: The ALC offers clear and easy access to the OSRAM 12 volt or 24 volt product range.



Main benefits

- Clear lamp arrangement
- Slot system for easy removal
- Drawers for additional lamps
- Lamp tester optionally available
- Available with or without lock

OSRAM Automotive Lamp Cabinet



The practical lamp tester is available as an option.

Product Reference	Product Number	Dimensions (WxHxD)
ALC without lock	4008321694355	405 x 572 x 190 mm
ALC with lock	4008321694362	405 x 572 x 190 mm
Lamp tester 50X1	4008321786951	-

Suggested stock 12V

Product reference	Name	Number of lamps
Slot system		
66144	D1S XENARC® ORIGINAL	1
66240	D2S XENARC® ORIGINAL	1
64150	H1 ORIGINAL	4
64150NBU	H1 NIGHT BREAKER® UNLIMITED	3
64150CBI	H1 COOL BLUE® INTENSE	1
64150ULT	H1 ULTRA LIFE	3
64151	H3 ORIGINAL	6
64151NBU	H3 NIGHT BREAKER® UNLIMITED	2
64151CBI	H3 COOL BLUE® INTENSE	1
64193	H4 ORIGINAL	9
64193NBU	H4 NIGHT BREAKER® UNLIMITED	4
64193CBI	H4 COOL BLUE® INTENSE	2
64193ULT	H4 ULTRA LIFE	4
64210	H7 ORIGINAL	8
64210NBU	H7 NIGHT BREAKER® UNLIMITED	5
64210CBI	H7 COOL BLUE® INTENSE	2
64210ULT	H7 ULTRA LIFE	5
Small drawers		
3893	T4W	10
2821	W3W	10
2827	WY5W	10
2825	W5W	10
2825ULT	W5W ULTRA LIFE	10
Large drawers		
7506	P21W	10
7507	PY21W	10
7225	P21/4W	10
7528	P21/5W	10
5007	R5W	10
5008	R10W	10
6418	C5W	10

Suggested stock 24V

Product reference	Name	Number of lamps
Slot system		
66144	D1S XENARC® ORIGINAL	1
33240	D2S XENARC® ORIGINAL	1
64155	H1 ORIGINAL	5
64155TSP	H1 TRUCKSTAR® PRO	5
64156	H3 ORIGINAL	5
64156TSP	H3 TRUCKSTAR® PRO	5
64196	H4 ORIGINAL	8
64196TSP	H4 TRUCKSTAR® PRO	11
64215	H7 ORIGINAL	9
64215TSP	H7 TRUCKSTAR® PRO	11
Small drawers		
3930	T4W	10
3930TSP	T4W TRUCKSTAR® PRO	10
2845	W5W	10
2841	W3W	10
Large drawers		
7511	P21W	10
7537	P21/5W	10
5627	R5W	10
5627TSP	R5W TRUCKSTAR® PRO	10
5637	R10W	10
6423	C5W	10
6429	Soffitte 10W	10

OSRAM workshop helpers

Practical at work and for the POS

The easy-to-use Shelf Rack provides space for the most important passenger car or truck lamps from OSRAM. The robust assortment box allows quick, mobile access to the most frequently required MINIWATT® lamps for passenger cars. The Survival Kit provides a basic set of main 12 V lamps.



Main benefits of Shelf Rack

- Row of hooks for presenting blister packs, DUO BOXES, new products
- Ideal for workshops and filling stations, practical for everyday use
- High-quality material and eye-catching design, ideal OSRAM in-store placement

Main benefits of 12V Survival Kit

- Ideal OSRAM in-store placement, equipped with a wide range of 12V lamps
- Particularly suitable for filling stations, garages and tire dealers

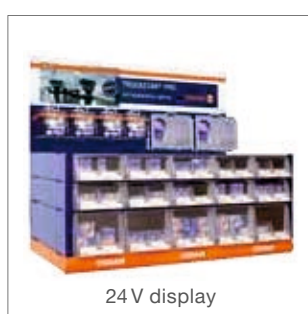
Main benefits of MINIWATT® 12V assortment box

- 18 different MINIWATT® 12 V lamps for passenger cars (total of 180 lamps), highlighted in color
- Equipment overview with the most important technical data directly in the box

OSRAM Shelf Rack / Survival Kit



12 V display



24 V display



Survival Kit

Product Reference	Product Number	Dimensions (W x H x D)
SHELF RACK	4008321211248	920 x 900 x 580 mm
Survival Kit	4052899016046	920 x 1200 x 580 mm

OSRAM MINIWATT® 12V



Product Reference	Product Number	Dimensions (W x H x D)	Contents	
509961	4008321082169	240 x 43 x 190 mm	180 lamps	3



Better business and satisfied customers

For consumers, the name of OSRAM has always stood for expertise in automotive lighting combined with an innovative range of lamps. OSRAM also supports retailers with effective marketing strategies and excellent sales logistics. Business partners therefore have the perfect basis for increasing both sales and customer satisfaction.

A unified approach

As part of its holistic approach to marketing, OSRAM provides the trade sector, stores and workshops with a large number of tools to ensure the best possible support, attractive presentation and greater incentive to purchase. In addition, OSRAM makes use of continuous advertising campaigns, radio advertising and e-marketing activities in the end customer advertising sector.

OSRAM self-service range

The proven and popular packaging for the self-service range is not only stylish, but also consumer-friendly, informative and eco-friendly. Language-neutral pictograms provide consumers with information on product characteristics that are easy to understand.

Displays and secondary placement

Customers find precisely what they want. The impressive, high-quality displays and secondary placements present products in a clear way, and with clear information. The counter displays take up little space but are eye-catching and practical. The floor display provides space for a wide range of products.

Perfect product presentation

Your requirements in the sales room are as unique as our solutions. The beamer rack for example is an impressive way of showing customers the difference between OSRAM NIGHT BREAKER® UNLIMITED, OSRAM COOL BLUE® INTENSE and OSRAM ORIGINAL. There are also informative decoration materials such as wobblers and shelf stoppers that immediately catch the eye.

Automotive lamp cabinet and application list

The automotive lamp cabinet from OSRAM is a practical lamp depot for retail outlets, filling stations and workshops. It can be stocked to suit its location. OSRAM provides an application list for workshops enabling the right lamps to be selected for each vehicle.

Tailored according to needs

To give trade partners an opportunity to raise their profiles among workshops, OSRAM runs individual campaigns that address specific customer needs. OSRAM also supports its partners with end consumer activities and exclusive product campaigns. In this regard, OSRAM participates as the official partner in the nationwide German "Light Test" campaign run by the German Association for Motor Trades and Repairs.

Precision in detail

Additionally, OSRAM makes all article data available for electronic ordering under TecCom and TecDoc. We can set up classic EDI networks on request. Our ordering system also supports the CAP message standard. For further information about OSRAM, go to www.osram.com or the e-business platform at www.myosram.com where you can also place orders easily and directly. Contact OSRAM for further information.

You can rely on us

For OSRAM, being a partner for retailers is not an empty slogan, it is a genuine maxim backed by a wide range of activities and campaigns. With OSRAM, retailers have a partner they can rely on at all times.



Fresh sales momentum with OSRAM POS tools

Our modern POS tools make the innovative OSRAM automotive product range particularly appealing, allowing successful presentation and demonstration. Providing customers with opportunities to test and compare the particular strengths of OSRAM products at the POS and obtain useful, compelling information.

Demonstration Tools

Xenon lighting and halogen lighting

Impressive light intensity comparisons. Xenon lighting: Comparison of XENARC® ORIGINAL and XENARC® COOL BLUE® INTENSE or XENARC® NIGHT BREAKER® UNLIMITED®. Halogen lighting: Comparison of OSRAM ORIGINAL and COOL BLUE® INTENSE or NIGHT BREAKER® UNLIMITED.

LEDiving® FOG

Brilliant choice for tuning and technology fans. Test functions for daytime running light, fog light, dimmed daytime running light and dimmed headlight.

LED Retrofits

More light colors, more opportunities. Compares conventional lamps with the new LED Retrofits with 2,000 K, 4,000 K, 6,000 K and 6,800 K.



Xenon Lighting and Halogen Lighting

LEDiving® FOG



LED Retrofits

Demonstration Tools

LEDiving® daytime running lights

Three demo tools, displaying OSRAM's innovative LEDiving® daytime running lights: the LEDiving® LG light guide solution, the LEDiving® PX-5 and the LEDiving® PX-4 with faceted optic and dotted pixel technology.



LEDiving® LG



LEDiving® PX-5



LEDiving® PX-4

Presentation Tool

NIGHT BREAKER® UNLIMITED Counter Display

Compact, high-quality counter display: Eye-catching and practical with low space requirements.



NIGHT BREAKER® UNLIMITED

Presentation Tool

LEDambient® Wireless Ambient Light Floor Display

Impressive, high-quality floor display: presents the innovative LEDambient® series in an innovative, spectacular and convincing manner.



LEDambient® Wireless Ambient Light Floor Display

OSRAM polePOStion® Automotive shelf

Consumer-friendly, flexible and profitable

Clearly structured, easily accessible and extremely convenient presentation system. Clear design and clear communication: Your customers access the information and lamps they require quickly.

- Modular system: depending on requirements, choice of tool options and available in two shelf widths (1 m and 1.25 m)
- Clear product presentation: Provides a good overview of portfolio; allows customers to quickly locate the right product
- Horizontal information board with integrated demo tool: Allows customers to test and compare the particular strengths of OSRAM products and identify the right products quickly and easily



polePOStion® AM shelf

OSRAM packaging with strong appearance

The OSRAM designs has a twofold effect: eye-catching from a distance and persuasive information when seen up close.

Prominent brand placement

— The picture logo

One of the oldest trademarks in Germany stands for premium quality.

— The band

The orange band – as a seal of quality, placed prominently at the top of the packaging. Indicates brand promise and ensures instant recognition.

The tried and tested blue background color offers a high level of brand recognition.

The ECE reference, voltage and wattage are shown boldly and clearly at the top left as important search criteria.

The name of the product family is shown boldly and clearly on the left-hand edge.

Product characteristics emphasize the added value of a particular lamp.

Bulb shape and base are clearly visible.

Protective effect – the blister offers excellent protection for the lamp.

Instant recognition of the product benefits.

Gleaming silver particles underline the high-quality design of our trademark-protected packaging.

Even more information at second glance

Type and order reference.

Reminder: “Always replace in pairs”.

NEW: The added value of the appropriate lamp compared to the standard product is explained in pictograms - comparison of luminous intensity, beam length, light color and service life.

Quality indicator – original spare part in OEM quality.

Reminder: “Made in Germany”.

Application notes and safety information.



Ordering by EAN code

The EAN code defines a set of unique international product numbers and is managed by an independent organization. Thanks to its worldwide use and high level of acceptance, it's ideal for identifying products and makes ordering convenient. The product number is used to order a specific consumer unit, therefore basically corresponding to the old order number.

- Product number = 1 lamp in folded box or 1 blister **1**
 Multipack = 10 FBs (folded boxes) **2**
 Shipping box = 100 FBs (folded boxes) **3**

  		OSRAM	
BILUX® H4 12V · 60/55W · P43t 64193			
1	pieces	Art.No.	4050300 001470
2	10 (10 x 1)	Multipack	4050300 212067
3	100	Shipping box	
(10 x 10)		4 050300 212074	
 (02)04050300001470(37)100			
 (93)A56941C0002			
Made in Germany		A 569 41C 00 02	
www.osram.com OSRAM GmbH Steinerne Furt 62 86167 Augsburg Germany			

How many lamps do you order with the product number?



Product number
(consumer unit)
corresponds to 1 folded
box with 1 lamp



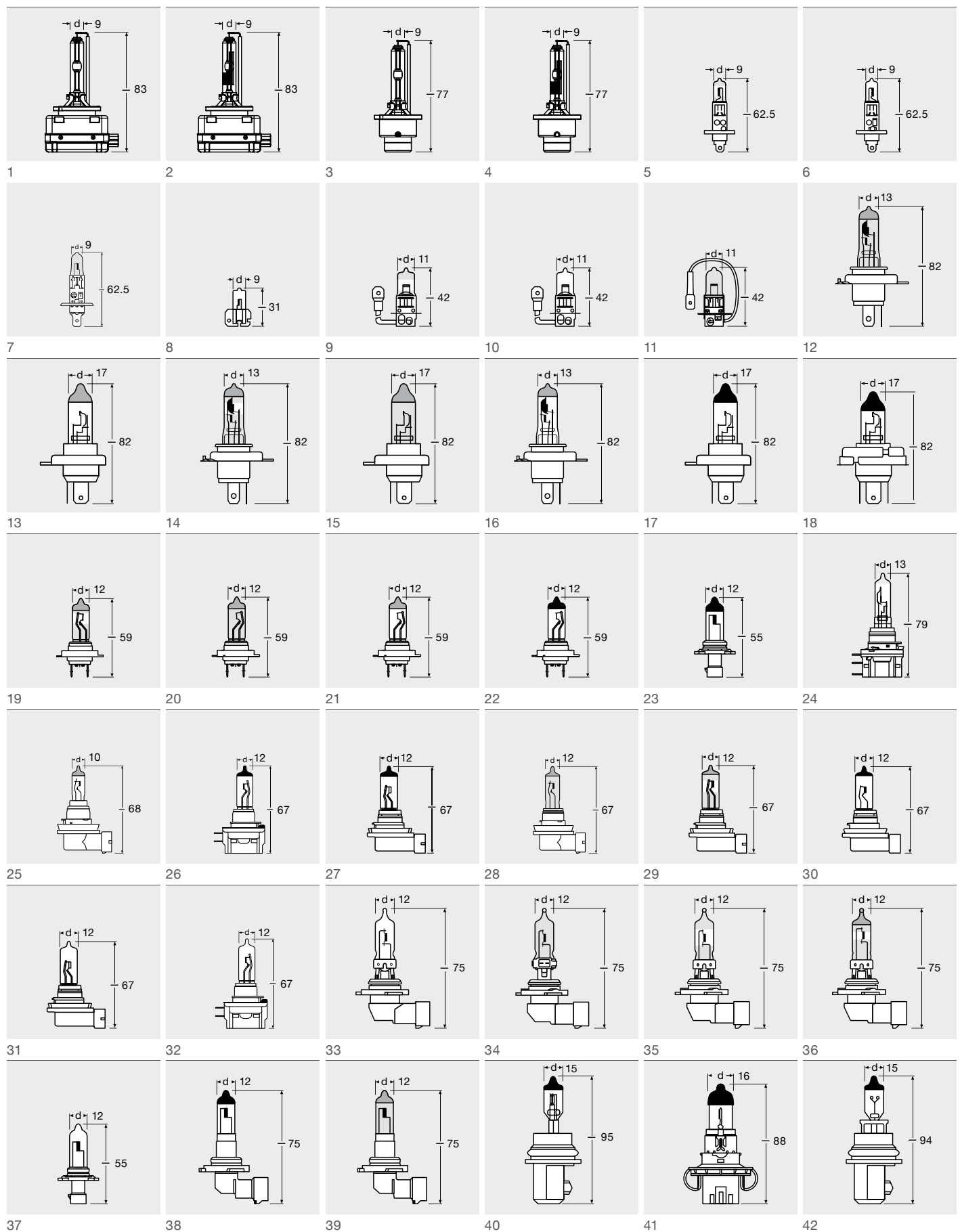
Product number
(consumer unit)
corresponds to 1 lamp
(multipack contains 10 lamps)

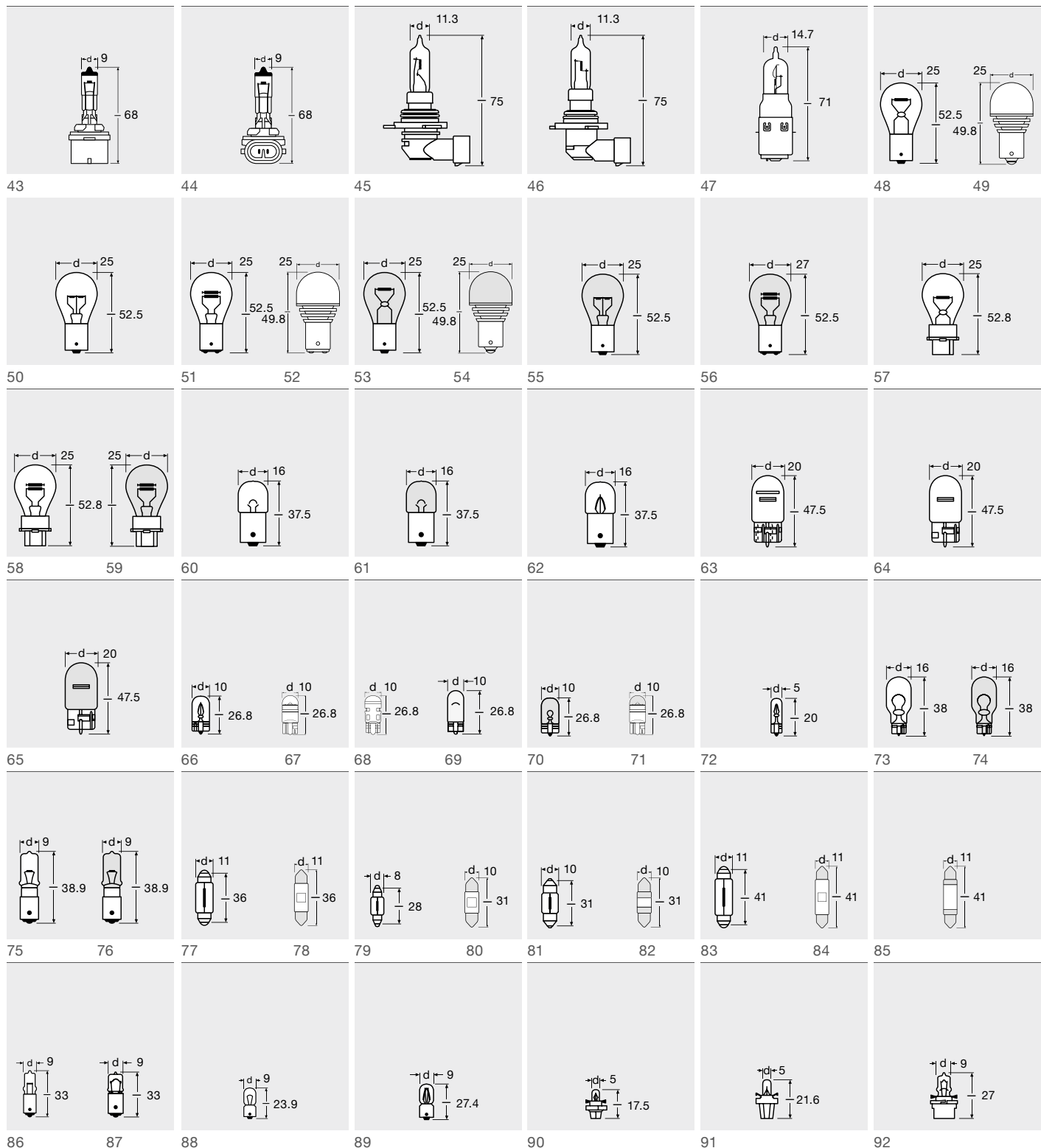


Product number
(consumer unit)
corresponds to
1 blister with 1 or 2 lamps

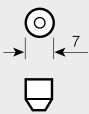
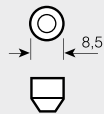
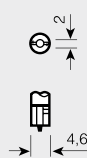
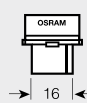
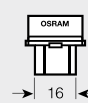


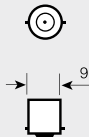
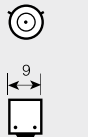
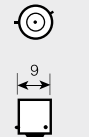
Product number
(consumer unit)
corresponds to
1 DUO BOX with 2 lamps

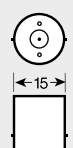
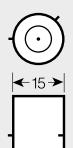


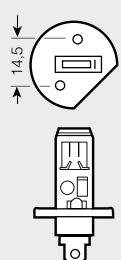
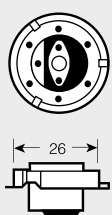
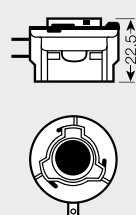
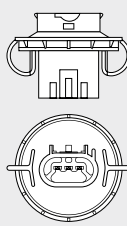
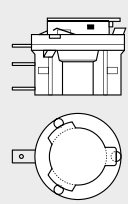
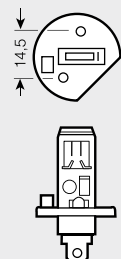
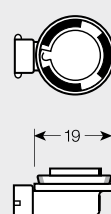


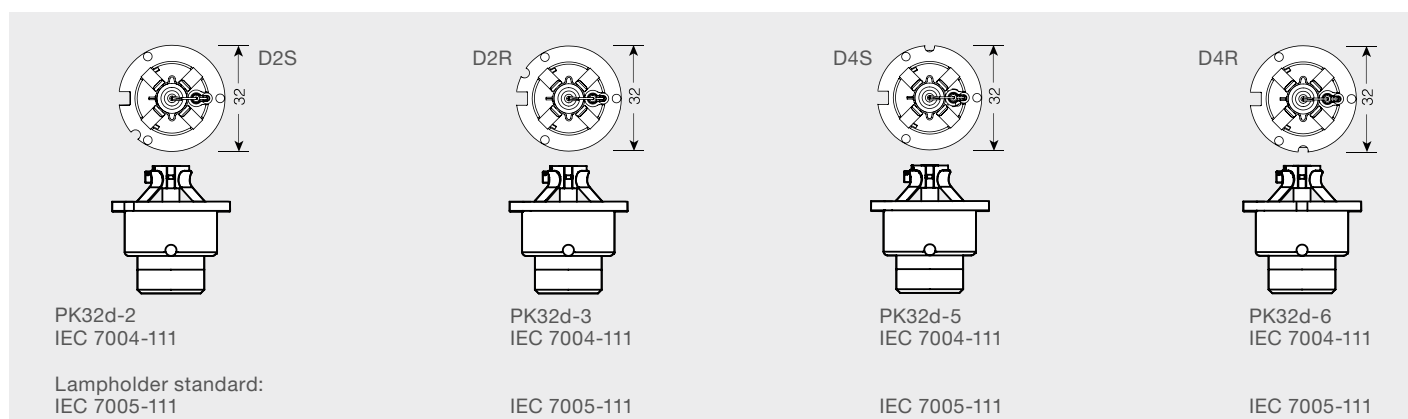
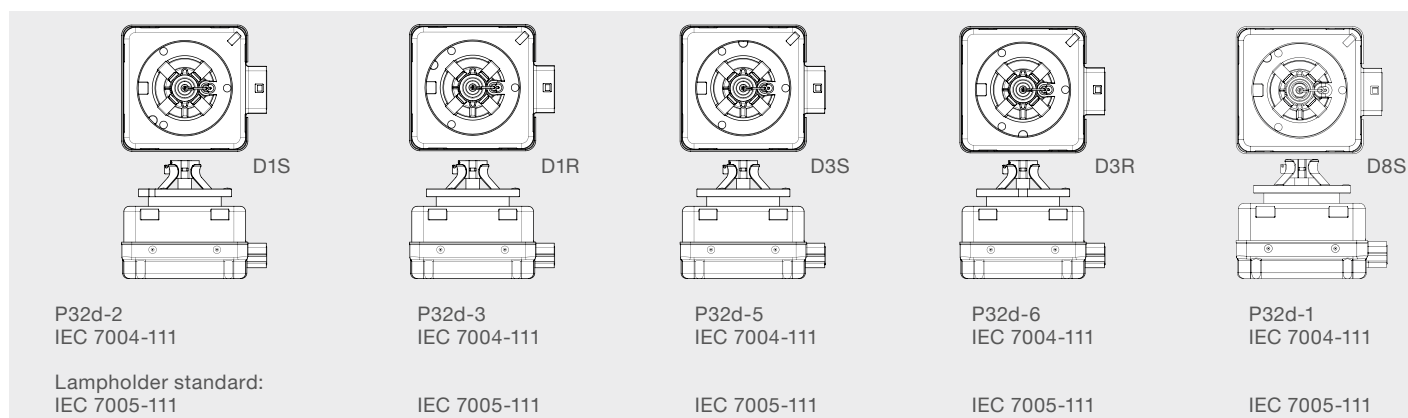
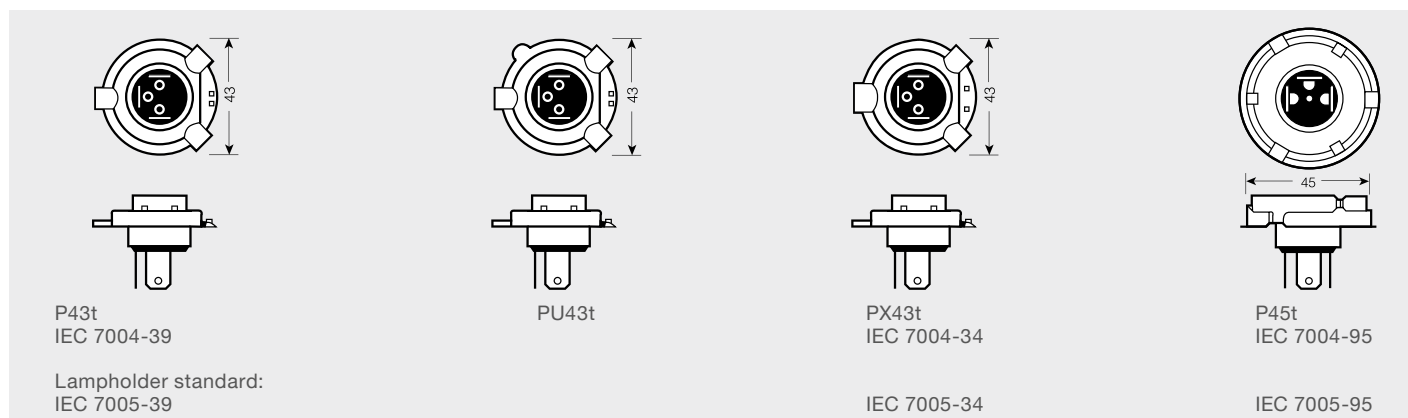
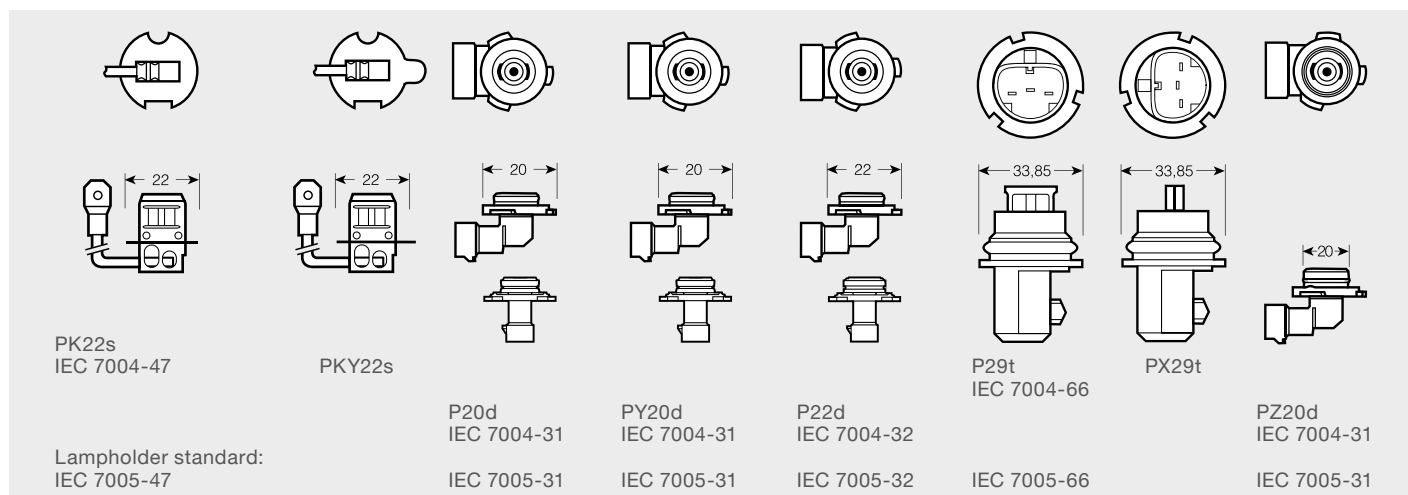
1=D1S, D3S, D8S | 2=D1R, D3R | 3=D2S, D4S | 4=D2R, D4R | 5=H1NBU | 6=H1 | 7=H1CBI | 8=H2 | 9=H3NBU | 10=H3 | 11=H3CBI | 12=H4CBI | 13=H4 Silver cap, H4 ULT, H4NR1 | 14=H4NBU, H4NR1 | 15=H4XR | 16=H4SV2, HS1SVS | 17=H4, HS1, HB2 | 18=R2 | 19=H7NBU, H7NR1 | 20=H7CBI, H7XR | 21=H7SV2, H7 ULT, H7NR5 | 22=H7 | 23=HB4A | 24=H15 | 25=H16 | 26=H11B, H8B | 27=H11, H11SV2 | 28=H11CBI | 29=H11NBU | 30=H8 | 31=H9 | 32=H9B | 33=HB3 | 34=HB3CBI | 35=HB3NBU | 36=HB4NBU | 37=HB3A | 38=HB4, H10 | 39=HB4CBI | 40=9007, HB5 | 41=H13 | 42=9004XV, HB1 | 43=H27W/1 | 44=H27W/2 | 45=HIR1 | 46=HIR2 | 47=S1, S2 | 48=P21W, 7529 | 49=P21W | 50=P21W 24V | 51=P21/4W, P21/5W | 52=P21/5W | 53=PY21W, PR21W | 54=PY21W | 55=PY21WTSP | 56=PR21/5W | 57=P27W | 58=P27/7W | 59=PY27/7W | 60=R5W, R10W 12V | 61=RY10W | 62=R5W, R10W 24V | 63=W21/5W | 64=W21W | 65=WY21W | 66=W3W, 2820, 2840, W5W, 2886X | 67=W5W | 68=W5W | 69=W5WCBI | 70=WY5W | 71=WY5W | 72=2721, 2722, 2723, 2741 | 73=W16W | 74=WY16W | 75=H21W | 76=HY21W | 77=C5W, 6461 | 78=C5W | 79=6428, 6430 | 80=6438 | 81=6438 | 82=6438 | 83=6411, 6413, 6421, 6424, 6429 | 84=6411, 6413, 6421, 6424, 6429 | 85=6411, 6413, 6421, 6424, 6429 | 86=64115, 64111, 64113 | 87=H6W | 88=3796, 3860, 3893, 3930 | 89=T4W | 90=2351MFX6, 2352MFX6, 2431MFX6, 2452MFX6, 2473MFX6, 2723MFX6 | 91=2721MF, 2721MFX, 2722MF, 2722MFX, 2741MF, 2741MFX, 2752MF, 2752MFX | 92=64122, 64124

					
SV7-8 IEC 7004-80	SV8.5-8 IEC 7004-81	W2x4.6d IEC 7004-94	W2.1x9.5d IEC 7004-91	W2.5x16d IEC 7004-104	W2.5x16q IEC 7004-104
Lampholder standard: IEC 7005-80	IEC 7005-80	IEC 7005-94	IEC 7005-91	IEC 7005-104	IEC 7005-104

				
BA9s IEC 7004-14	BAY9s IEC 7004-9	BAX9s IEC 7004-8	B8.4-12.5 BX8.4-12.5	B8.5d BX8.5d
Lampholder standard: IEC 7005-12	IEC 7005-9	IEC 7005-8	IEC 7004-140 IEC 7005-140	

						
BA15s IEC 7004-11A	BAU15s IEC 7004-19	BAW15s IEC 7004-11 E	BAY15d IEC 7004-11 B	BAZ15d IEC 7004-11 C	BAW15d IEC 7004-11 E	BA20d IEC 7004-12
Lampholder standard: IEC 7005-13	IEC 7005-13	IEC 7005-13	IEC 7005-13	IEC 7005-13	IEC 7005-13	IEC 7005-14

					
P14.5s IEC 7004-46	P26s IEC 7004-36	PX13.5s IEC 7004-35	PGJY19-2 PGJY19-5 PGJY19-1	PJ26.4t	PGJ23t-1
Lampholder standard: IEC 7005-46	IEC 7005-36	IEC 7005-35	IEC 7004-146 IEC 7005-146	IEC 7004-128 IEC 7005-128	IEC 7004-155 IEC 7005-155
					
PX14.5s		PX26d IEC 7004-5 IEC 7005-5		PGJ 19 PGJ 19-1 PGJ 19-2 PGJ 19-5 IEC 7004-110 IEC 7005-110	



Type overview by rated voltage

V	W		Product Reference		V	W		Product Reference	
-	-	-	LEDINT101	P.17	12	3	W2.1x9.5d	2821	P.46
-	-	-	LEDINT201	P.17	12	3	SV7-8	6428	P.47
-	-	-	LEDINT202	P.17	12	4	BA9s	3893	P.46
-	-	-	LEDFOG101-TY-M	P.11	12	4	BAU15s	7557YE	P.13
-	-	-	LEDFOG201-TY-M	S.11	12	4	BA15s	7556WW	P.13
3	0.1	-	LEDBL302	P.27	12	4	BA15s	7556CW	P.13
3	1.7	-	LEDSL101	P.25	12	5	W2.1x9.5d	2825	P.46
3	2	-	LEDBL102	P.27	12	5	W2.1x9.5d	2825HCBI	P.39
3.2-4.2	0.96-504mW	-	LEDEDL101	P.17	12	5	W2.1x9.5d	2825ULT	P.43
4.5	0.5	-	LEDSL301	P.25	12	5	W2.1x9.5d	2827	P.46
4.5	0.5	-	LEDSL302	P.25	12	5	W2.1x9.5d	2827DC	P.41
4.5	1.5	-	LEDIL301	P.21	12	5	BA9s	3860	P.46
4.5	1.6	-	LEDIL302	P.21	12	5	BA15s	5007	P.46
5	2	-	LEDIL101	P.19	12	5	BA15s	5007ULT	P.43
5	2	-	LEDIL102	P.19	12	5	SV8.5-8	6413	P.47
6	1	-	LEDBL301	P.27	12	5	SV8.5-8	6418	P.47
7.4	3.3	-	LEDBL101	P.27	12	5	SV8.5-8	6418ULT	P.43
12	-	-	LEDHL101	P.11	12	5	BA9s	64115	P.47
12	1	W2.1x9.5d	2850BL ¹⁾	P.13	12	5	-	LEDCBCTRL101	P.15
12	1	W2.1x9.5d	2850CW ¹⁾	P.13	12	6	W2.1x9.5d	2886X	P.46
12	1	W2.1x9.5d	2850WW ¹⁾	P.13	12	6	BAX9s	64132	P.46
12	1	W2.1x9.5d	2855YE ¹⁾	P.13	12	6	BAX9s	64132ULT	P.43
12	1	W2.1x9.5d	2880CW ¹⁾	P.15	12	8	-	LEDFOG201	P.11
12	1	W2.1x9.5d	2880SW ¹⁾	P.15	12	10	BA15s	5008ULT	P.43
12	1	BA9s	3850CW ¹⁾	P.13	12	10	BA15s	5008	P.46
12	1	BA9s	3850WW ¹⁾	P.13	12	10	BAU15s	5009	P.47
12	1	SV8.5-8	6431CW ¹⁾	P.15	12	10	SV8.5-8	6411	P.47
12	1	SV8.5-8	6431SW ¹⁾	P.15	12	10	BA9s	64113	P.47
12	1	SV8.5-8	6436CW ¹⁾	P.15	12	10	SV8.5-8	6438	P.47
12	1	SV8.5-8	6436SW ¹⁾	P.15	12	10	SV8.5-8	6461	P.47
12	1	SV8.5-8	6441CW ¹⁾	P.15	12	13.5	-	LEDDL301	P.9
12	1	SV8.5-8	6441SW ¹⁾	P.15	12	13.5	-	LEDDL301 CL15	P.9
12	1	SV8.5-8	6497CW ¹⁾	P.13	12	13.5	-	LEDDL401	P.9
12	1	SV8.5-8	6497WW ¹⁾	P.13	12	15	-	LEDDL102	P.9
12	1	SV8.5-8	6498CW ¹⁾	P.13	12	16	W2.1x9.5d	921	P.46
12	1	SV8.5-8	6498WW ¹⁾	P.13	12	16	W2.1x9.5d	921NA	P.46
12	1	SV8.5-8	6499CW ¹⁾	P.13	12	19	PGJ19-3	64219L+	P.45
12	1	SV8.5-8	6499WW ¹⁾	P.13	12	20	BA9s	64111	P.47
12	1.12	BX8.4d	2473MFX6	P.47	12	21	WX3x16d	7504	P.46
12	1.2	BX8.4d	2351MFX6	P.47	12	21	W3x16d	7505	P.46
12	1.2	W2x4.6d	2721	P.46	12	21	BA15s	7506	P.46
12	1.2	B8.5d	2721MF	P.47	12	21	BA15s	7506ULT	P.43
12	1.2	BX8.5d	2721MFX	P.47	12	21	BAU15s	7507	P.46
12	1.3	BX8.4d	2431MFX6	P.47	12	21	BAU15s	7507DC	P.41
12	1.5	BX8.4d	2452MFX6	P.47	12	21	BAU15s	7507DPA	P.41
12	1.5	B8.5d	2752MF	P.47	12	21	BAU15s	7507LDA	P.41
12	1.5	BX8.5d	2752MFX	P.47	12	21	BAU15s	7507ULT	P.43
12	2	BX8.4d	2352MFX6	P.47	12	21	BAW15s	7508LDR	P.41
12	2	W2x4.6d	2722	P.46	12	21	BAY9s	64136	P.46
12	2	B8.5d	2722MF	P.47	12	21	BAW9s	64137L	P.46
12	2	BX8.5d	2722MFX	P.47	12	21/4	BAZ15d	7225	P.46
12	2	W2.1x9.5d	2820	P.46	12	21/5	BA15d	7240	P.46
12	2.3	W2x4.6d	2723	P.46	12	21/5	W3x16q	7515	P.46

V	W		Product Reference	
12	21/5	BAY15d	7528	P.46
12	21/5	BAW15d	7538LDR	P.41
12	21/5	BAY15d	7528ULT	P.43
12	25/25	BA20d	64326	P.51
12	27	PG13	880	P.45
12	27	PGJ13	881	P.45
12	27	W2.5x16d	3156	P.47
12	27/7	W2.5x16q	3157	P.47
12	27/7	W2.5x16q	3757AK	P.47
12	35	PGJ19-1	64212	P.45
12	35	PGJ19-1	64212CBI	P.39
12	35	PGJY19-1	64242	P.45
12	35/35	PX43t	64185	P.45
12	35/35	PX43t	64185NR5	P.49
12	35/35	BA20d	64327	P.51
12	42	PY20d	9145RD	P.45
12	45/40	P45t	64183	P.45
12	51	P22d	9006	P.45
12	51	P22d	9006CBI	P.39
12	51	P22d	9006NBU	P.35
12	51	P20d	9006XS	P.45
12	55	PX20D	9012	P.45
12	55	P14.5s	62150CBH ²⁾	P.57
12	55	PX26d	62210CBH ²⁾	P.57
12	55	P14.5s	64150	P.45
12	55	P14.5s	64150CBI	P.39
12	55	P14.5s	64150NBU	P.35
12	55	P14.5s	64150SV2	P.37
12	55	P14.5s	64150ULT	P.43
12	55	PK22s	64151	P.45
12	55	PK22s	64151CBI	P.39
12	55	PK22s	64151NBU	P.35
12	55	X511	64173	P.45
12	55	PX26d	64210	P.45
12	55	PX26d	64210CBI	P.39
12	55	PX26d	64210NBU	P.35
12	55	PX26d	64210NR1	P.49
12	55	PX26d	64210NR5	P.49
12	55	PX26d	64210SV2	P.37
12	55	PX26d	64210ULT	P.43
12	55	PX26d	64210XR	P.51
12	55	PGJ19-2	64211	P.45
12	55	PGJ19-2	64211CBI	P.39
12	55	PGJ19-2	64211NBU	P.35
12	55	PGJ19-2	64211SV2	P.37
12	55	PGJY19-2	64241	P.45
12	55/15	PGJ23t-1	64176	P.45
12	55/15	PGJ23t-1	64176CBI	P.39
12	60	P20d	9005	P.45
12	60	P20d	9005CBI	P.39
12	60	P20d	9005NBU	P.35
12	60	P20d	9005XS	P.45
12	60/55	P43t	9003L	P.45

V	W		Product Reference	
12	60/55	P26.4t	9008	P.45
12	60/55	P43t	62193CBH ²⁾	P.57
12	60/55	P43t	64193	P.45
12	60/55	P43t	64193CBI	P.39
12	60/55	P43t	64193NBU	P.35
12	60/55	P43t	64193NR1	P.49
12	60/55	P43t	64193NR5	P.49
12	60/55	P43t	64193SV2	P.37
12	60/55	P43t	64193ULT	P.43
12	60/55	P43t	64193XR	P.51
12	60/55	P45T	64198SB ²⁾	P.57
12	60/55	P43t	94193	P.45
12	65	PGJ19-5	64213	P.45
12	65	PGJY19-5	64243	P.45
12	65	PX20D	9011	P.45
12	65/55	PX29t	9007	P.45
12	70	PK22s	62151CBH ²⁾	P.57
12	80	P22D	69006SBP ²⁾	P.57
12	80	PX26D	62261SBP ²⁾	P.57
12	100	P14.5s	62200SBP ²⁾	P.57
12	100	PK22s	62201SBP ²⁾	P.57
12	100	PX14.5s	64152SB ²⁾	P.57
12	100	PKX22s	64153SB ²⁾	P.57
12	100	P20D	69005SBP ²⁾	P.57
12	100/90	P43T	62204SBP ²⁾	P.57
12	100/90	PU43T	64194SB ²⁾	P.57
12	100/90	P45T	64204SB ²⁾	P.57
12/24	0.5	-	ONYX L	P.23
12/24	0.5	-	ONYX L-7	P.23
12/24	0.5	-	ONYX M	P.23
12/24	0.5	-	ONYX M-7	P.23
12/24	7/12	-	LEDFOG101	P.11
24	1	W2x4.6d	2341	P.55
24	1	W2.1x9.5d	2824CW ¹⁾	P.13
24	1	W2.1x9.5d	2824WW ¹⁾	P.13
24	1	BA9s	3924CW ¹⁾	P.13
24	1	BA9s	3924WW ¹⁾	P.13
24	1.2	W2x4.6d	2741	P.55
24	1.2	B8.5d	2741MF	P.55
24	1.2	BX8.5d	2741MFX	P.55
24	2	W2.1x9.5d	2840	P.55
24	3	W2.1x9.5d	2841	P.55
24	3	SV8.5-8	6421	P.55
24	3	SV7-8	6430	P.55
24	4	BA9s	3930	P.55
24	4	BA9s	3930TSP	P.53
24	5	W2.1x9.5d	2845	P.55
24	5	W2.1x9.5d	2845TSP	P.53
24	5	BA15d	5626	P.55
24	5	BA15s	5627	P.55
24	5	BA15s	5627TSP	P.53
24	5	SV8.5-8	6423	P.55
24	5	SV8.5-8	6424	P.55

			Product Reference	
24	10	BA15s	5637	P.55
24	10	BA15s	5637TSP	P.53
24	10	SV8.5-8	6429	P.55
24	15	BA15s	7529	P.55
24	18/5	BAY15d	7244	P.55
24	20/60	PGJ23t-1	64177	P.55
24	21	BAY9s	64138	P.55
24	21	BAU15s	7510TSP	P.53
24	21	BA15s	7511	P.55
24	21	BA15s	7511TSP	P.53
24	21/5	BAY15d	7537	P.55
24	21/5	BAY15d	7537TSP	P.53
24	70	P14.5s	64155	P.55
24	70	P14.5s	64155TSP	P.53
24	70	PK22s	64156	P.55
24	70	PK22s	64156TSP	P.53
24	70	X511	64175	P.55
24	75/70	P43t	64196	P.55
24	75/70	P43t	64196TSP	P.53
24	70	PX26d	64215	P.55
24	70	PX26d	64215TSP	P.53
24	70	PGJ19-2	64216TSP	P.53
24	75/70	P43t	94196	P.55
42	35	PK32d-5	66340	P.33
42	35	PK32d-5	66340CBI	P.31
42	35	PK32d-6	66350	P.33
42	35	P32d-5	66440	P.33
42	35	P32d-5	66440CBI	P.31
42	35	P32d-6	66450	P.33
42	25	PK32d-1	66548	P.33
85	35	PK32d-2	66140	P.33
85	35	PK32d-2	66140CBI	P.31
85	35	PK32d-2	66140XNB	P.29
85	35	PK32d-3	66154	P.33
85	35	PK32d-3	66154CBI	P.31
85	35	P32d-2	66240	P.33
85	35	P32d-2	66240CBI	P.31
85	35	P32d-2	66240XNB	P.29
85	35	P32d-3	66250	P.33
85	35	P32d-3	66250CBI	P.31

1) OFF-ROAD only when used in an exterior application. These products do not have ECE approval. This means that they cannot be fitted in exterior lights if the vehicle is to be used on public roads.

2) These products do not have ECE approval. This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public roads.

Type overview by ECE/SAE category

ECE	V	W		Product Reference		ECE	V	W		Product Reference	
-	24	1	W2x4.6d	2341	P.55	-	12	1	SV8.5-8	6441SW ¹⁾	P.15
-	12	1.2	W2x4.6d	2721	P.46	-	12	1	SV8.5-8	6497CW ¹⁾	P.13
-	12	2	W2x4.6d	2722	P.46	-	12	1	SV8.5-8	6497WW ¹⁾	P.13
-	24	1.2	W2x4.6d	2741	P.55	-	12	1	SV8.5-8	6498CW ¹⁾	P.13
-	12	2	W2.1x9.5d	2820	P.46	-	12	1	SV8.5-8	6498WW ¹⁾	P.13
-	24	2	W2.1x9.5d	2840	P.55	-	12	1	SV8.5-8	6499CW ¹⁾	P.13
-	12	5	BA9s	3860	P.46	-	12	1	SV8.5-8	6499WW ¹⁾	P.13
-	12	10	SV8.5-8	6411	P.47	-	12	4	BAU15s	7557YE ¹⁾	P.13
-	12	5	SV8.5-8	6413	P.47	-	12	4	BA15s	7556WW ¹⁾	P.13
-	24	3	SV8.5-8	6421	P.55	-	12	4	BA15s	7556CW ¹⁾	P.13
-	24	5	SV8.5-8	6424	P.55	-	7.4	3.3	-	LEDBL101	P.27
-	12	3	SV7-8	6428	P.47	-	3	2	-	LEDBL102	P.27
-	24	10	SV8.5-8	6429	P.55	-	6	1	-	LEDBL301	P.27
-	24	3	SV7-8	6430	P.55	-	3	0.1	-	LEDBL302	P.27
-	12	10	SV8.5-8	6438	P.47	-	12	5	-	LEDCBCTRL101	P.15
-	12	10	SV8.5-8	6461	P.47	-	-	-	-	LEDDLE101	P.17
-	12	21/5	BA15d	7240	P.46	-	12	15	-	LEDDL102	P.9
-	24	15	BA15s	7529	P.55	-	12	13.5	-	LEDDL301	P.9
-	12	20	BA9s	64111	P.47	-	12	13.5	-	LEDDL301 CL15	P.9
-	12	10	BA9s	64113	P.47	-	12	13.5	-	LEDDL401	P.9
-	12	5	BA9s	64115	P.47	-	12/24	7/12	-	LEDFOG101	P.11
-	12	1.2	BX8.4d	2351MFX6	P.47	-	-	-	-	LEDFOG101-TY-M	P.11
-	12	2	BX8.4d	2352MFX6	P.47	-	12	8	-	LEDFOG201	P.11
-	12	1.3	BX8.4d	2431MFX6	P.47	-	-	-	-	LEDFOG201-TY-M	P.11
-	12	1.5	BX8.4d	2452MFX6	P.47	-	12	-	-	LEDHL101	P.11
-	12	1.12	BX8.4d	2473MFX6	P.47	-	5	2	-	LEDIL101	P.19
-	12	1.2	B8.5d	2721MF	P.47	-	5	2	-	LEDIL102	P.19
-	12	1.2	BX8.5d	2721MFX	P.47	-	4.5	1.5	-	LEDIL301	P.21
-	12	2	B8.5d	2722MF	P.47	-	4.5	1.6	-	LEDIL302	P.21
-	12	2	BX8.5d	2722MFX	P.47	-	-	-	-	LEDINT101	P.17
-	24	1.2	B8.5d	2741MF	P.55	-	-	-	-	LEDINT201	P.17
-	24	1.2	BX8.5d	2741MFX	P.55	-	-	-	-	LEDINT202	P.17
-	12	1.5	B8.5d	2752MF	P.47	-	3	1.7	-	LEDSL101	P.25
-	12	1.5	BX8.5d	2752MFX	P.47	-	4.5	0.5	-	LEDSL301	P.25
-	24	1	W2.1x9.5d	2824CW ¹⁾	P.13	-	4.5	0.5	-	LEDSL302	P.25
-	24	1	W2.1x9.5d	2824WW ¹⁾	P.13	-	12/24	0.5	-	ONYX L	P.23
-	12	1	W2.1x9.5d	2850BL ¹⁾	P.13	-	12/24	0.5	-	ONYX L-7	P.23
-	12	1	W2.1x9.5d	2850CW ¹⁾	P.13	-	12/24	0.5	-	ONYX M	P.23
-	12	1	W2.1x9.5d	2850WW ¹⁾	P.13	-	12/24	0.5	-	ONYX M-7	P.23
-	12	1	W2.1x9.5d	2855YE ¹⁾	P.13	-	12	55	P14,5s	62150CBH ²⁾	P.57
-	12	1	W2.1x9.5d	2880CW ¹⁾	P.15	-	12	100	P14,5s	62200SBP ²⁾	P.57
-	12	1	W2.1x9.5d	2880SW ¹⁾	P.15	-	12	100	PX14,5s	64152SB ²⁾	P.57
-	12	6	W2.1x9.5d	2886X	P.46	-	12	70	PK22s	62151CBH ²⁾	P.57
-	12	1	BA9s	3850CW ¹⁾	P.13	-	12	100	PK22s	62201SBP ²⁾	P.57
-	12	1	BA9s	3850WW ¹⁾	P.13	-	12	100	PKX22s	64153SB ²⁾	P.57
-	24	1	BA9s	3924CW ¹⁾	P.13	-	12	60/55	P43t	62193CBH ²⁾	P.57
-	24	1	BA9s	3924WW ¹⁾	P.13	-	12	100/90	P43T	62204SBP ²⁾	P.57
-	24	18/5	BAY15d	7244	P.55	-	12	100/90	PU43T	64194SB ²⁾	P.57
-	12	1	SV8.5-8	6431CW ¹⁾	P.15	-	12	55	PX26d	62210CBH ²⁾	P.57
-	12	1	SV8.5-8	6431SW ¹⁾	P.15	-	12	80	PX26D	62261SBP ²⁾	P.57
-	12	1	SV8.5-8	6436CW ¹⁾	P.15	-	12	100	P20D	69005SBP ²⁾	P.57
-	12	1	SV8.5-8	6436SW ¹⁾	P.15	-	12	80	P22D	69006SBP ²⁾	P.57
-	12	1	SV8.5-8	6441CW ¹⁾	P.15	-	12	60/55	P45T	64198SB ²⁾	P.57

ECE	V	W		Product Reference	
-	12	100/90	P45T	64204SB ²⁾	P.57
C5W	12	5	SV8.5-8	6418	P.47
C5W	24	5	SV8.5-8	6423	P.55
C5W	12	5	SV8.5-8	6418ULT	P.43
D1R	85	35	PK32d-3	66154	P.33
D1R	85	35	PK32d-3	66154CBI	P.31
D1S	85	35	PK32d-2	66140	P.33
D1S	85	35	PK32d-2	66140CBI	P.31
D1S	85	35	PK32d-2	66140XNB	P.29
D2R	85	35	P32d-3	66250	P.33
D2R	85	35	P32d-3	66250CBI	P.31
D2S	85	35	P32d-2	66240CBI	P.31
D2S	85	35	P32d-2	66240XNB	P.29
D2S	85	35	P32d-2	66240	P.33
D3R	42	35	PK32d-6	66350	P.33
D3S	42	35	PK32d-5	66340	P.33
D3S	42	35	PK32d-5	66340CBI	P.31
D4R	42	35	P32d-6	66450	P.33
D4S	42	35	P32d-5	66440	P.33
D4S	42	35	P32d-5	66440CBI	P.31
D8S	42	25	PK32d-1	66548	P.33
H1	12	55	P14.5s	64150	P.45
H1	24	70	P14.5s	64155	P.55
H1	12	55	P14.5s	64150CBI	P.39
H1	12	55	P14.5s	64150NBU	P.35
H1	12	55	P14.5s	64150SV2	P.37
H1	12	55	P14.5s	64150ULT	P.43
H1	24	70	P14.5s	64155TSP	P.53
H10	12	42	PY20d	9145RD	P.45
H11	12	55	PGJ19-2	64211	P.45
H11	12	55	PGJ19-2	64211CBI	P.39
H11	12	55	PGJ19-2	64211NBU	P.35
H11	12	55	PGJ19-2	64211SV2	P.37
H11	24	70	PGJ19-2	64216TSP	P.53
H11B	12	55	PGJY19-2	64241	P.45
H13	12	60/55	P26.4t	9008	P.45
H15	12	55/15	PGJ23t-1	64176	P.45
H15	24	20/60	PGJ23t-1	64177	P.55
H15	12	55/15	PGJ23t-1	64176CBI	P.39
H16	12	19	PGJ19-3	64219L+	P.45
H2	12	55	X511	64173	P.45
H2	24	70	X511	64175	P.55
H21W	12	21	BAY9s	64136	P.46
H21W	24	21	BAY9s	64138	P.55
H27/1W	12	27	PGI3	880	P.45
H27/2W	12	27	PGJ13	881	P.45
H3	12	55	PK22s	64151	P.45
H3	24	70	PK22s	64156	P.55
H3	12	55	PK22s	64151CBI	P.39
H3	12	55	PK22s	64151NBU	P.35
H3	24	70	PK22s	64156TSP	P.53
H4	12	60/55	P43t	64193	P.45
H4	24	75/70	P43t	64196	P.55

ECE	V	W		Product Reference	
H4	12	60/55	P43t	94193	P.45
H4	24	75/70	P43t	94196	P.55
H4	12	60/55	P43t	64193CBI	P.39
H4	12	60/55	P43t	64193NBU	P.35
H4	12	60/55	P43t	64193NR1	P.49
H4	12	60/55	P43t	64193NR5	P.49
H4	12	60/55	P43t	64193SV2	P.37
H4	12	60/55	P43t	64193ULT	P.43
H4	12	60/55	P43t	64193XR	P.51
H4	24	75/70	P43t	64196TSP	P.53
H6W	12	6	BAX9s	64132	P.46
H6W	12	6	BAX9s	64132ULT	P.43
H7	12	55	PX26d	64210	P.45
H7	24	70	PX26d	64215	P.55
H7	12	55	PX26d	64210CBI	P.39
H7	12	55	PX26d	64210NBU	P.35
H7	12	55	PX26d	64210NR1	P.49
H7	12	55	PX26d	64210NR5	P.49
H7	12	55	PX26d	64210SV2	P.37
H7	12	55	PX26d	64210ULT	P.43
H7	12	55	PX26d	64210XR	P.51
H7	24	70	PX26d	64215TSP	P.53
H8	12	35	PGJ19-1	64212	P.45
H8	12	35	PGJ19-1	64212CBI	P.39
H8B	12	35	PGJY19-1	64242	P.45
H9	12	65	PGJY19-5	64213	P.45
H9B	12	65	PGJY19-5	64243	P.45
HB2	12	60/55	P43t	9003L	P.45
HB3	12	60	P20d	9005	P.45
HB3	12	60	P20d	9005CBI	P.39
HB3	12	60	P20d	9005NBU	P.35
HB3A	12	60	P20d	9005XS	P.45
HB4	12	51	P22d	9006	P.45
HB4	12	51	P22d	9006CBI	P.39
HB4	12	51	P22d	9006NBU	P.35
HB4A	12	51	P20d	9006XS	P.45
HB5	12	65/55	PX29t	9007	P.45
HIR1	12	65	PX20D	9011	P.45
HIR2	12	55	PX20D	9012	P.45
HS1	12	35/35	PX43t	64185	P.45
HS1	12	35/35	PX43t	64185NR5	P.49
HY21W	12	21	BAW9s	64137ULT	P.46
P21/4W	12	21/4	BAZ15d	7225	P.46
P21/5W	12	21/5	BAY15d	7528	P.46
P21/5W	24	21/5	BAY15d	7537	P.55
P21/5W	12	21/5	BAY15d	7528ULT	P.43
P21/5W	24	21/5	BAY15d	7537TSP	P.53
P21W	12	21	BA15s	7506	P.46
P21W	24	21	BA15s	7511	P.55
P21W	12	21	BA15s	7506ULT	P.43
P21W	24	21	BA15s	7511TSP	P.53
P27/7W	12	27/7	W2.5x16q	3157	P.47
P27W	12	27	W2.5x16d	3156	P.47

ECE	V	W		Product Reference	
PR21/5W	12	21/5	BAW15d	7538LDR	P.41
PR21W	12	21	BAW15s	7508LDR	P.41
PY21W	12	21	BAU15s	7507	P.46
PY21W	12	21	BAU15s	7507DC	P.41
PY21W	12	21	BAU15s	7507DPA	P.41
PY21W	12	21	BAU15s	7507LDA	P.41
PY21W	12	21	BAU15s	7507ULT	P.43
PY21W	24	21	BAU15s	7510TSP	P.53
PY27/7W	12	27/7	W2.5x16q	3757AK	P.47
R10W	12	10	BA15s	5008	P.46
R10W	24	10	BA15s	5637	P.55
R10W	12	10	BA15s	5008ULT	P.43
R10W	24	10	BA15s	5637TSP	P.53
R2	12	45/40	P45t	64183	P.45
R5W	12	5	BA15s	5007	P.46
R5W	24	5	BA15d	5626	P.55
R5W	24	5	BA15s	5627	P.55
R5W	12	5	BA15s	5007ULT	P.43
R5W	24	5	BA15s	5627TSP	P.53
RY10W	12	10	BAU15s	5009	P.47
S1	12	25/25	BA20d	64326	P.51
S2	12	35/35	BA20d	64327	P.51
T4W	12	4	BA9s	3893	P.46
T4W	24	4	BA9s	3930	P.55
T4W	24	4	BA9s	3930TSP	P.53
W16W	12	16	W2.1x9.5d	921	P.46
W2.3W	12	2.3	W2x4.6d	2723	P.46
W21/5W	12	21/5	W3x16q	7515	P.46
W21W	12	21	W3x16d	7505	P.46
W3W	12	3	W2.1x9.5d	2821	P.46
W3W	24	3	W2.1x9.5d	2841	P.55
W5W	12	5	W2.1x9.5d	2825	P.46
W5W	24	5	W2.1x9.5d	2845	P.55
W5W	12	5	W2.1x9.5d	2825HCBI	P.39
W5W	12	5	W2.1x9.5d	2825ULT	P.43
W5W	24	5	W2.1x9.5d	2845TSP	P.53
WY16W	12	16	W2.1x9.5d	921NA	P.46
WY21W	12	21	WX3x16d	7504	P.46
WY5W	12	5	W2.1x9.5d	2827	P.46
WY5W	12	5	W2.1x9.5d	2827DC	P.41

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2) These products do not have ECE approval. This means that they cannot be fitted in "normal" headlights or additional headlights if the vehicle is to be used on public roads.

Type overview in numerical order of product reference with test data

Product Reference	ECE	V	W		V Test	W In	lm	T[h] B3/Tc 1)	
880	H27/1W	12	27	PG13	13.5	31	450	-	P.45
881	H27/2W	12	27	PGJ13	13.5	31	450	-	P.45
921	W16W	12	16	W2.1x9.5d	13.5	19.4	310	400/1000	P.46
2341	-	24	1	W2x4.6d	28.0	1	3	300/1000	P.55
2721	-	12	1.2	W2x4.6d	13.5	1.22	7.5	500/2000	P.46
2722	-	12	2	W2x4.6d	13.5	2	12	1300/4000	P.46
2723	W2.3W	12	2.3	W2x4.6d	13.5	2.3	18.6	350/1200	P.46
2741	-	24	1.2	W2x4.6d	28.0	1.6	7.5	400/2000	P.55
2820	-	12	2	W2.1x9.5d	13.5	2.2	13.5	600/4000	P.46
2821	W3W	12	3	W2.1x9.5d	13.5	3	22	1300/4000	P.46
2825	W5W	12	5	W2.1x9.5d	13.5	5	50	350/1000	P.46
2827	WY5W	12	5	W2.1x9.5d	13.5	5	30	350/1000	P.46
2840	-	24	2	W2.1x9.5d	28.0	2.6	13	500/5000	P.55
2841	W3W	24	3	W2.1x9.5d	28.0	4	22	500/5000	P.55
2845	W5W	24	5	W2.1x9.5d	28.0	7	50	800/3000	P.55
3156	P27W	12	27	W2.5x16d	13.5	29.2	475	600/0	P.47
3157	P27/7W	12	27/7	W2.5x16q	13.5/13.5	29.2/7.7	475/36	600/5000	P.47
3860	-	12	5	BA9s	13.5	5	50	400/1000	P.46
3893	T4W	12	4	BA9s	13.5	4	35	600/1200	P.46
3930	T4W	24	4	BA9s	28.0	5	35	550/1000	P.55
5007	R5W	12	5	BA15s	13.5	5	50	350/800	P.46
5008	R10W	12	10	BA15s	13.5	10	125	350/800	P.46
5009	RY10W	12	10	BAU15s	13.5	10	75	350/800	P.47
5626	R5W	24	5	BA15d	28.0	7	50	80/250	P.55
5627	R5W	24	5	BA15s	28.0	7	50	500/1000	P.55
5637	R10W	24	10	BA15s	28.0	12.5	125	400/800	P.55
6411	-	12	10	SV8.5-8	13.5	10	100	500/1000	P.47
6413	-	12	5	SV8.5-8	13.5	5	45	1000/2000	P.47
6418	C5W	12	5	SV8.5-8	13.5	5	45	1000/2000	P.47
6421	-	24	3	SV8.5-8	28.0	3	17	800/1500	P.55
6423	C5W	24	5	SV8.5-8	28.0	7	45	1500/4000	P.55
6424	-	24	5	SV8.5-8	28.0	7	60	1000/2000	P.55
6428	-	12	3	SV7-8	13.5	3.5	29	600/1200	P.47
6429	-	24	10	SV8.5-8	28.0	10	105	300/600	P.55
6430	-	24	3	SV7-8	28.0	3	22	400/800	P.55
6438	-	12	10	SV8.5-8	13.5	10	120	200/500	P.47
6461	-	12	10	SV8.5-8	13.5	10	105	600/1200	P.47
7225	P21/4W	12	21/4	BAZ15d	13.5/13.5	25/5	440/15	180/1250 //290/4000	P.46
7240	-	12	21/5	BA15d	13.5/13.5	25/6	440/35	180/1250//290/4000	P.46
7244	-	24	18/5	BAY15d	28	20	312	Avg: 75	P.55
7504	WY21W	12	21	WX3x16d	13.5	25	280	400/600	P.46
7505	W21W	12	21	W3x16d	13.5	25	460	400/600	P.46
7506	P21W	12	21	BA15s	13.5	25	460	250/500	P.46
7507	PY21W	12	21	BAU15s	13.5	25	280	250/500	P.46
7511	P21W	24	21	BA15s	28.0	28	460	200/400	P.55
7515	W21/5W	12	21/5	W3x16q	13.5/13.5	25/6	440/35	400/600//3000/3000	P.46
7528	P21/5W	12	21/5	BAY15d	13.5/13.5	25/6	440/35	180/1250//290/4000	P.46
7529	-	24	15	BA15s	28.0	15	210	100/300	P.55
7537	P21/5W	24	21/5	BAY15d	28.0	28/10	440/40	65/600//600/1600	P.55
9005	HB3	12	60	P20d	13.2	73	1860	280/550	P.45

Product Reference	ECE	V	W		V _{Test}	W _h	lm	T[h] B3/Tc 1)	
9006	HB4	12	51	P22d	13.2	62	1095	860/1720	P.45
9007	HB5	12	65/55	PX29t	12.8	70/60	1350/1000	250/500	P.45
9008	H13	12	60/55	P26.4t	13.2	75/68	1700/1100	170/1290//350/2590	P.45
9011	HIR1	12	65	PX20D	13.2	max. 73	2500	-	P.45
9012	HIR2	12	55	PX20D	13.2	max. 63	1875	-	P.45
64111	-	12	5	BA9s	13.5	5	80	150/500	P.47
64113	-	12	10	BA9s	13.5	10	200	150/400	P.47
64115	-	12	20	BA9s	13.5	22.5	450	150/500	P.47
64132	H6W	12	6	BAX9s	13.5	7	125	350/700	P.46
64136	H21W	12	21	BAY9s	13.5	25	600	300/600	P.46
64138	H21W	24	21	BAY9s	28.0	28	600	150/400	P.55
64150	H1	12	55	P14.5s	13.2	68	1550	400/650	P.45
64151	H3	12	55	PK22s	13.2	68	1450	400/650	P.45
64155	H1	24	70	P14.5s	28.0	84	1900	400/650	P.55
64156	H3	24	70	PK22s	28.0	84	1750	400/650	P.55
64173	H2	12	55	X511	13.2	68	1800	90/250	P.45
64175	H2	24	70	X511	28.0	84	2150	90/250	P.55
64176	H15	12	55/15	PGJ23t-1	13.2	19/64	260/1350	2000/250//4000/500	P.45
64177	H15	24	20/60	PGJ23t-1	28.0	max.84	300/1500	1500/3000//200/400	P.55
64183	R2	12	45/40	P45t	13.2	48.5/46.5	1030/740	250/400//500/1200	P.45
64185	HS1	12	35/35	PX43t	13.2	36.8/36.8	820/520	75/150//150/300	P.45
64193	H4	12	60/55	P43t	13.2	75/68	1650/1000	250/400//500/900	P.45
64196	H4	24	75/70	P43t	28.0	85/80	1900/1200	170/350//400/800	P.55
64210	H7	12	55	PX26d	13.2	58	1500	330/550	P.45
64211	H11	12	55	PGJ19-2	13.2	62	1350	350/580	P.45
64212	H8	12	35	PGJ19-1	13.2	43	800	400/800	P.45
64213	H9	12	65	PGJ19-5	13.2	73	2100	250/500	P.45
64215	H7	24	70	PX26d	28.0	75	1750	220/500	P.55
64241	H11B	12	55	PGJY19-2	13.2	62	1350	350/580	P.45
64242	H8B	12	35	PGJY19-1	13.2	43	800	400/800	P.45
64243	H9B	12	65	PGJY19-5	13.2	73	2100	250/500	P.45
64326	S1	12	25/25	BA20d	13.5	25/25	430/310	-	P.51
64327	S2	12	35/35	BA20d	13.5	35/35	650/460	80/160	P.51
66140	D1S	85	35	PK32d-2	13.5	35	3200	2000/3000	P.33
66154	D1R	85	35	PK32d-3	13.5	35	2800	2000/3000	P.33
66240	D2S	85	35	P32d-2	13.5	35	3200	2000/3000	P.33
66250	D2R	85	35	P32d-3	13.5	35	2800	2000/3000	P.33
66340	D3S	42	35	PK32d-5	13.5	35	3200	2000/4000	P.33
66350	D3R	42	35	PK32d-6	13.5	35	2800	1500/2500	P.33
66440	D4S	42	35	P32d-5	13.5	35	3200	2000/4000	P.33
66450	D4R	42	35	P32d-6	13.5	35	2800	2000/3000	P.33
66548	D8S	42	25	PK32d-1	13.5	25	2000	2500/4000	P.33
94193	H4	12	60/55	P43t	13.2	75/68	1650/1000	300/1100//500/2400	P.45
94196	H4	24	75/70	P43t	28.0	85/80	1900/1200	170/500//400/1500	P.55
2351MFX6	-	12	1.2	BX8.4d	13.5	1.32	7.5	600/3000	P.47
2352MFX6	-	12	2	BX8.4d	13.5	2.13	11.8	1500/6000	P.47
2431MFX6	-	12	1.3	BX8.4d	13.5	1.28	6.5	1300/6000	P.47
2452MFX6	-	12	1.5	BX8.4d	13.5	1.8	6.5	1700/6500	P.47
2473MFX6	-	12	1.12	BX8.4d	14.0	1.12	3.6	500/5000	P.47
2721MF	-	12	1.2	B8.5d	13.5	1.2	6.4	500/2000	P.47

Product Reference	ECE	V	W		V _{Test}	W _h	lm	T[h] B3/Tc 1)	
2721MFX	-	12	1.2	BX8.5d	13.5	1.2	6.4	500/2000	P.47
2722MF	-	12	2	B8.5d	13.5	2	10.2	1300/4000	P.47
2722MFX	-	12	2	BX8.5d	13.5	2	10.2	1300/4000	P.47
2741MF	-	24	1.2	B8.5d	28.0	1.6	6.4	400/2000	P.55
2741MFX	-	24	1.2	BX8.5d	28.0	1.6	6.4	400/2000	P.55
2752MF	-	12	1.5	B8.5d	13.5	1.8	6.0	1000/6500	P.47
2752MFX	-	12	1.5	BX8.5d	13.5	1.8	6.0	1000/6500	P.47
2824CW ²⁾	-	24	1	W2.1x9.5d	28	1	55	2500/5000	P.13
2824WW ²⁾	-	24	1	W2.1x9.5d	28	1	55	2500/5000	P.13
2825HCBI	W5W	12	5	W2.1x9.5d	13.5	5	50	350/1000	P.39
2825ULT	W5W	12	5	W2.1x9.5d	13.5	5	50	700/1500	P.43
2827DC	WY5W	12	5	W2.1x9.5d	13.5	5	30	200/500	P.41
2845TSP	W5W	24	5	W2.1x9.5d	28.0	7	50	1000/4000	P.53
2850BL ²⁾	-	12	1	W2.1x9.5d	13.5	-	16	5000	P.13
2850CW ²⁾	-	12	1	W2.1x9.5d	13.5	-	70	2500/5000	P.13
2850WW ²⁾	-	12	1	W2.1x9.5d	13.5	-	55	2500/5000	P.13
2855YE ²⁾	-	12	1	W2.1x9.5d	13.5	-	30	2500/5000	P.13
2880CW ²⁾	-	12	1	W2.1x9.5d	13.5	-	45	2500/5000	P.15
2880SW ²⁾	-	12	1	W2.1x9.5d	13.5	-	45	2500/5000	P.15
2886X	-	12	6	W2.1x9.5d	13.5	6	85	400/1000	P.46
3757AK	-	12	27/7	W2.5x16q	13.5	29.2/17.7	280/21	460/1100	P.47
3850CW ²⁾	-	12	1	BA9s	13.2	-	50	500/1000	P.13
3850WW ²⁾	-	12	1	BA9s	13.2	-	50	500/1000	P.13
3924CW ²⁾	-	24	1	BA9s	28	-	55	2500/5000	P.13
3924WW ²⁾	-	24	1	BA9s	28	-	55	2500/5000	P.13
3930TSP	T4W	24	4	BA9s	28.0	5	35	550/1000	P.53
5007ULT	R5W	12	5	BA15s	13.5	5	50	600/1200	P.43
5008ULT	R10W	12	10	BA15s	13.5	10	125	600/1200	P.43
5627TSP	R5W	24	5	BA15s	28.0	7	50	800/2000	P.53
5637TSP	R10W	24	10	BA15s	28.0	12.5	125	1000/2000	P.53
62150CBH ³⁾	-	12	55	P14.5s	13.2	68	700	200/400	P.57
62151CBH ³⁾	-	12	70	PK22s	13.2	75	750	150/400	P.57
62193CBH ³⁾	-	12	60/55	P43t	13.2	75/68	850/550	100/200//200/400	P.57
62200SBP ³⁾	-	12	100	P14.5s	13.2	93	2600	1000/2000	P.57
62201SBP ³⁾	-	12	100	PK22s	13.2	85	2300	50/200	P.57
62204SBP ³⁾	-	12	100/90	P43T	13.2	100/80	2900/1700	45/100//90/200	P.57
62210CBH ³⁾	-	12	55	PX26d	13.2	73	900	200/400	P.57
62261SBP ³⁾	-	12	80	PX26D	13.2	80	1950	250/500	P.57
64132ULT	H6W	12	6	BAX9s	13.5	7	125	600/1000	P.43
64137ULT	HY21W	12	21	BAW9s	13.5	26.25	300	400/700	P.46
64150CBI	H1	12	55	P14.5s	13.2	68	1550	150/250	P.39
64150NBU	H1	12	55	P14.5s	13.2	68	1550	150/300	P.35
64150SV2	H1	12	55	P14.5s	13.2	68	1550	250/450	P.37
64150ULT	H1	12	55	P14.5s	13.2	68	1550	1200/2000	P.43
64151CBI	H3	12	55	PK22s	13.2	68	1300	150/250	P.39
64151NBU	H3	12	55	PK22s	13.2	68	1450	150/300	P.35
64152SB ³⁾	-	12	100	PX14,5s	13.2	93	2600	22.5/50	P.57
64153SB ³⁾	-	12	100	PKX22s	13.2	85	2300	23/50	P.57
64155TSP	H1	24	70	P14.5s	28.0	84	1900	600/1200	P.53
64156TSP	H3	24	70	PK22s	28.0	max. 84	1750	600/1200	P.53

Product Reference	ECE	V	W		V _{Test}	W _h	lm	T[h] B3/Tc 1)	
64176CBI	H15	12	55/15	PGJ23t-1	13.2	max. 19/64	260/1350	1000/100//2000/200	P.39
64185NR5	HS1	12	35/35	PX43t	13.2	36.8/36.8	820/520	75/120//120/240	P.49
6418ULT	C5W	12	5	SV8.5-8	13.5	5	45	1500/4000	P.43
64193CBI	H4	12	60/55	P43t	13.2	75/68	1650/1000	50/200//100/400	P.39
64193NBU	H4	12	60/55	P43t	13.2	75/68	1650/1000	80/260//160/400	P.35
64193NR1	H4	12	60/55	P43t	13.2	75/68	1650/1000	80/260//160/400	P.49
64193NR5	H4	12	60/55	P43t	13.2	75/68	1650/1000	250/400//450/700	P.49
64193SV2	H4	12	60/55	P43t	13.2	75/68	1650/1000	250/400//450/700	P.37
64193ULT	H4	12	60/55	P43t	13.2	75/68	1650/1000	300/2000//700/3000	P.43
64193XR	H4	12	60/55	P43t	13.2	75/68	1650/1000	50/180//100/380	P.51
64194SB ³⁾	-	12	100/90	PU43T	13.2	109/85	2900/1500	45/85//85/170	P.57
64196TSP	H4	24	75/70	P43t	28.0	85/80	1900/1200	140/450//300/1000	P.53
64198SB ³⁾	-	12	60/55	P45T	13.2	75/68	1650/1000	250/400//500/900	P.57
64204SB ³⁾	-	12	100/90	P45T	13.2	99/88	2200/1500	150/300	P.57
64210CBI	H7	12	55	PX26d	13.2	58	1500	100/200	P.39
64210NBU	H7	12	55	PX26d	13.2	58	1500	150/250	P.35
64210NR1	H7	12	55	PX26d	13.2	58	1500	150/250	P.49
64210NR5	H7	12	55	PX26d	13.2	58	1500	250/450	P.49
64210SV2	H7	12	55	PX26d	13.2	58	1500	250/450	P.37
64210ULT	H7	12	55	PX26d	13.2	58	1500	700/1100	P.43
64210XR	H7	12	55	PX26d	13.2	58	1500	100/200	P.51
64211CBI	H11	12	55	PGJ19-2	13.2	62	1350	100/200	P.39
64211NBU	H11	12	55	PGJ19-2	13.2	62	1350	150/250	P.35
64211SV2	H11	12	55	PGJ19-2	13.2	62	1350	250/450	P.37
64212CBI	H8	12	35	PGJ19-1	13.2	43	800	250/500	P.39
64215TSP	H7	24	70	PX26d	28.0	75	1750	500/1000	P.53
64216TSP	H11	24	70	PGJ19-2	28.0	max. 80	1600	500/1000	P.53
64219L+	H16	12	19	PGJ19-3	13.2	26	500	1115/2000	P.45
6431CW ²⁾	-	12	1	SV8.5-8	13.5	-	30	avg: 2000	P.15
6431SW ²⁾	-	12	1	SV8.5-8	13.5	-	30	avg: 2000	P.15
6436CW ²⁾	-	12	1	SV8.5-8	13.5	-	30	avg: 2000	P.15
6436SW ²⁾	-	12	1	SV8.5-8	13.5	-	30	avg: 2000	P.15
6441CW ²⁾	-	12	1	SV8.5-8	13.5	-	30	avg: 2000	P.15
6441SW ²⁾	-	12	1	SV8.5-8	13.5	-	25	avg: 2000	P.15
6497CW ²⁾	-	12	1	SV8.5-8	13.5	-	35	2500/5000	P.13
6497WW ²⁾	-	12	1	SV8.5-8	13.5	-	35	2500/5000	P.13
6498CW ²⁾	-	12	1	SV8.5-8	13.2	-	30	500/1000	P.13
6498WW ²⁾	-	12	1	SV8.5-8	13.2	-	30	500/1000	P.13
6499CW ²⁾	-	12	1	SV8.5-8	13.5	-	35	2500/5000	P.13
6499WW ²⁾	-	12	1	SV8.5-8	13.5	-	35	2500/5000	P.13
66140CBI	D1S	85	35	PK32d-2	13.5	35	3200	1800/2800	P.31
66140XNB	D1S	85	35	PK32d-2	13.5	35	3200	1500/2500	P.29
66154CBI	D1R	85	35	PK32d-3	13.5	35	2800	1500/2000	P.31
66240CBI	D2S	85	35	P32d-2	13.5	35	3200	1800/2800	P.31
66240XNB	D2S	85	35	P32d-2	13.5	35	3200	1500/2500	P.29
66250CBI	D2R	85	35	P32d-3	13.5	35	2800	1500/2000	P.31
66340CBI	D3S	42	35	PK32d-5	13.5	35	3200	2000/3000	P.31
66440CBI	D4S	42	35	P32d-5	13.5	35	3200	2000/3000	P.31
69005SBP	-	12	100	P20D	13.2	100	2885	280/550	P.57
69006SBP	-	12	80	P22D	13.2	max. 80	1890	600/1200	P.57

Product Reference	ECE	V	W		V _{Test}	W _{in}	lm	T[h] B3/Tc 1)	
7506ULT	P21W	12	21	BA15s	13.5	25	460	500/1000	P.43
7507DC	PY21W	12	21	BAU15s	13.5	25	280	100/250	P.41
7507DPA	PY21W	12	21	BAU15s	13.5	25	280	100/250	P.41
7507LDA	PY21W	12	21	BAU15s	13.5	25	280	500/1000	P.41
7507ULT	PY21W	12	21	BAU15s	13.5	25	280	500/1000	P.43
7508LDR	PR21W	12	21	BAW15s	13.5	25	110	500/1000	P.41
7510TSP	PY21W	24	21	BAU15s	28.0	28	250	250/500	P.53
7511TSP	P21W	24	21	BA15s	28.0	28	460	250/500	P.53
7528ULT	P21/5W	12	21/5	BAY15d	13.5/13.5	25/6	440/35	300/3000//800/6000	P.43
7537TSP	P21/5W	24	21/5	BAY15d	28.0	28/10	440/40	100/1000//200/2000	P.53
7538LDR	PR21/5W	12	21/5	BAW15d	13.5/13.5	25/6	105/8	300/3000//800/6000	P.41
7557YE	-	12	4	BAU15s	13.5	-	165	2500/5000	P.13
7556WW	-	12	4	BA15s	-	-	350/400	>5000	P.13
7556CW	-	12	4	BA15s	-	-	350/400	>5000	P.13
9003L	HB2	12	60/55	P43t	13.2	72/65	1500/910	300/1100//750/1400	P.45
9005CBI	HB3	12	60	P20d	13.2	73	1860	110/220	P.39
9005NBU	HB3	12	60	P20d	13.2	73	1860	110/210	P.35
9005XS	HB3A	12	60	P20d	13.2	max. 73	1860	-	P.45
9006CBI	HB4	12	51	P22d	13.2	62	1095	260/520	P.39
9006NBU	HB4	12	51	P22d	13.2	62	1095	270/500	P.35
9006XS	HB4A	12	51	P20d	13.2	62	1095	860/1720	P.45
9145RD	H10	12	42	PY20d	13.2	50	850	860/1720	P.45
921NA	WY16W	12	16	W2.1x9.5d	13.5	19.4	190	400/1000	P.46
LEDBL101	-	7.4	3.3	-	-	-	-	up to 7/4	P.27
LEDBL102	-	3	2	-	-	-	-	up to 6	P.27
LEDBL301	-	6	1	-	-	-	-	up to 5	P.27
LEDBL302	-	3	0.1	-	-	-	-	up to 36	P.27
LEDCBCTRL101	-	12	5	-	-	-	-	-	P.15
LEDDEL101	-	3.2-4.2	0.96-504 mW	-	-	0.96-504 mW	-	-	P.17
LEDDL102	-	12	15	-	14.0	15	300	5000	P.9
LEDDL301	-	12	13.5	-	14.0	13.5	300	5000	P.9
LEDDL301CL15	-	12	13.5	-	14.0	13.5	300	5000	P.9
LEDDL401	-	12	13.5	-	14.0	13.5	300	5000	P.9
LEDFOG101	-	12/24	7/10	-	14.0/28.0	FOG 7/DRL 10	-	0/5000	P.11
LEDFOG101-TY-M	-	-	-	-	-	-	-	0/5000	P.11
LEDFOG201	-	12	8	-	14.0	8	-	0/5000	P.11
LEDFOG201-TY-M	-	12	8	-	-	-	-	-	P.11
LEDHL101	-	12	-	-	-	-	-	-	P.11
LEDIL101	-	5	2	-	-	1.9/1.2	-	-	P.19
LEDIL102	-	5	2	-	-	1.2	-	-	P.19
LEDIL301	-	4.5	1.5	-	-	-	Field light: 75 Torch light: 18	5000 5000	P.21
LEDIL302	-	4.5	1.6	-	-	-	Torch light: 10 Field light: 110	5000 5000	P.21

Product Reference	ECE	V	W		V Test	W _{in}	lm	T[h] B3/Tc ¹⁾	
LEDINT101	-	-	-	-	-	0.96-504 mW	-	-	P.17
LEDINT201	-	-	-	-	-	-	-	-	P.17
LEDINT202	-	-	-	-	-	-	-	-	P.17
LEDL101	-	3	1.7	-	-	-	-	-	P.25
LEDL301	-	4.5	0.5	-	-	-	-	-	P.25
LEDL302	-	4.5	0.5	-	-	-	-	-	P.25
ONYXL	-	12/24	0.5	-	-	0.5	20	-	P.23
ONYXL-7	-	12/24	0.5	-	-	0.5	20	-	P.23
ONYXM	-	12/24	0.5	-	-	0.5	20	-	P.23
ONYXM-7	-	12/24	0.5	-	-	0.5	20	-	P.23

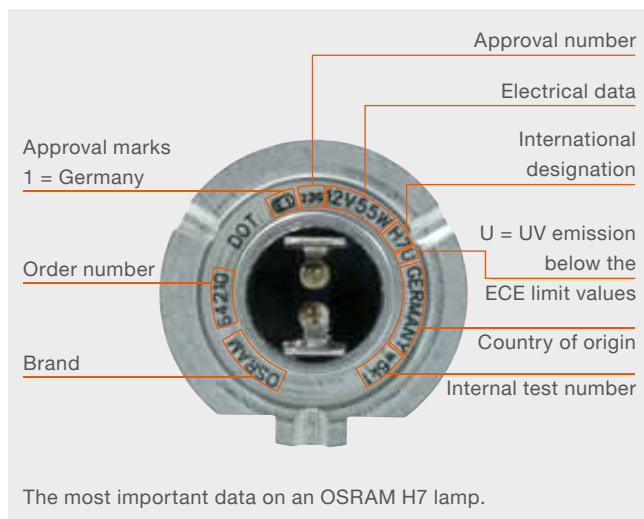
1) What do B3 and Tc mean in connection with the service life of bulbs? If we consider the service lives of products that are designed to last a certain time, we can see that they all have identical or similar failure characteristics. If we plot the service lives of the individual bulbs on special logarithmic graph paper, the graph produced is called a “Weibull distribution curve”. In a stable production process we obtain a straight line for the service life via which we can read off various life values. For its products in the automotive sector, OSRAM specifies a B3 value, which indicates the time at which 3 % of the tested bulbs have failed. OSRAM also specifies the Tc value (characteristic Weibull value), which indicates the time at which 63.2 % of the bulbs have failed. Formerly, only the average value was specified (the average life), which in this system would correspond to a B50 value (i.e. the time at which 50 % of the bulbs have failed). By specifying both the B3 value and the Tc value it is possible to get an idea of the spread of the product’s service life and hence the quality of the product.

Explanation: single filament lamp e.g. 100/300

dual filament lamp e.g. $\underbrace{100/300}_{B_3} // \underbrace{500/100}_{T_c}$

- 2) OFF-ROAD only when used in an exterior application. These products do not have ECE approval. This means that they cannot be fitted in exterior lights if the vehicle is to be used on public roads.
- 3) These products do not have ECE approval. This means that they cannot be fitted in “normal” headlights or additional headlights if the vehicle is to be used on public roads.

Base stamp



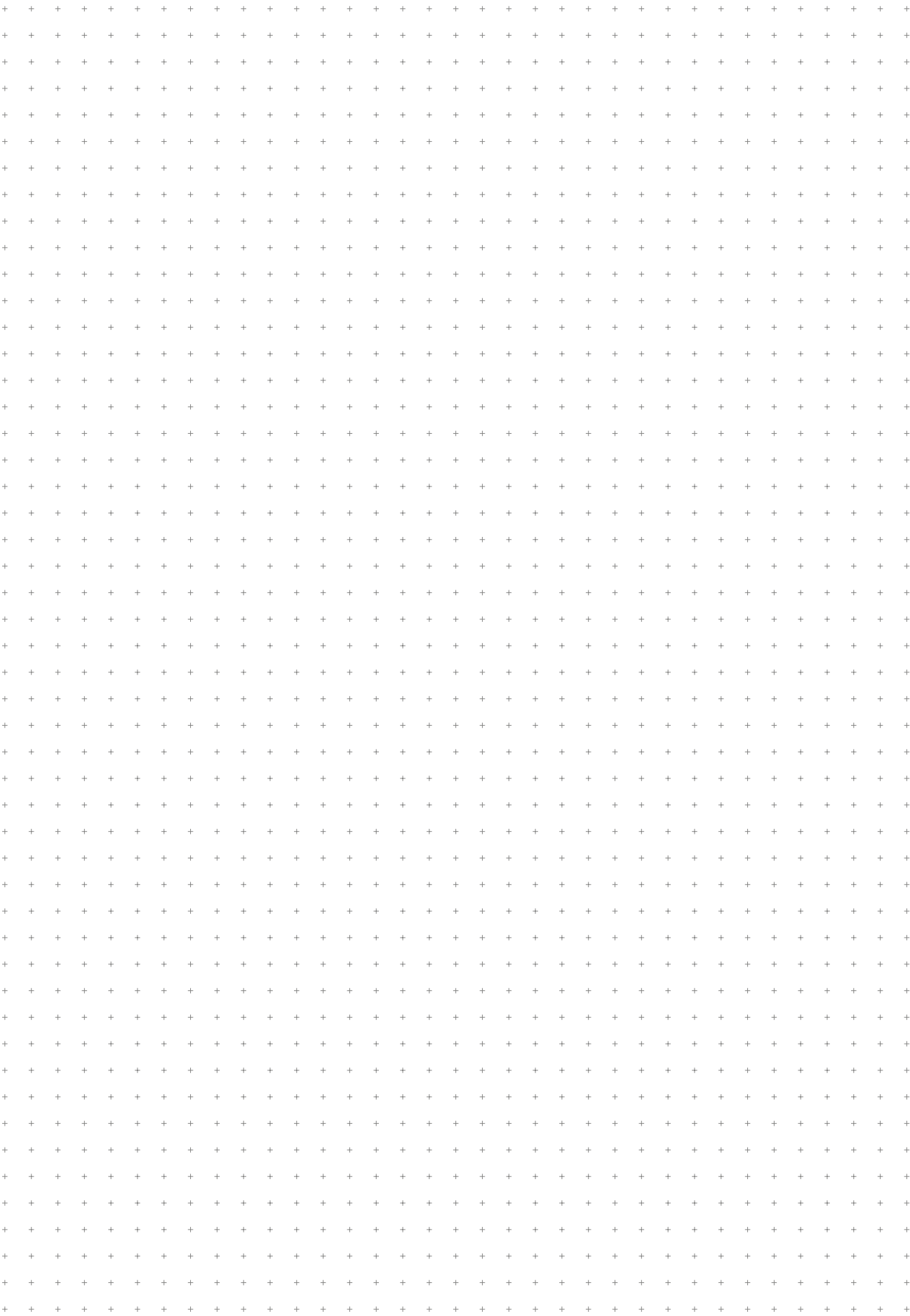
Notes on product labeling

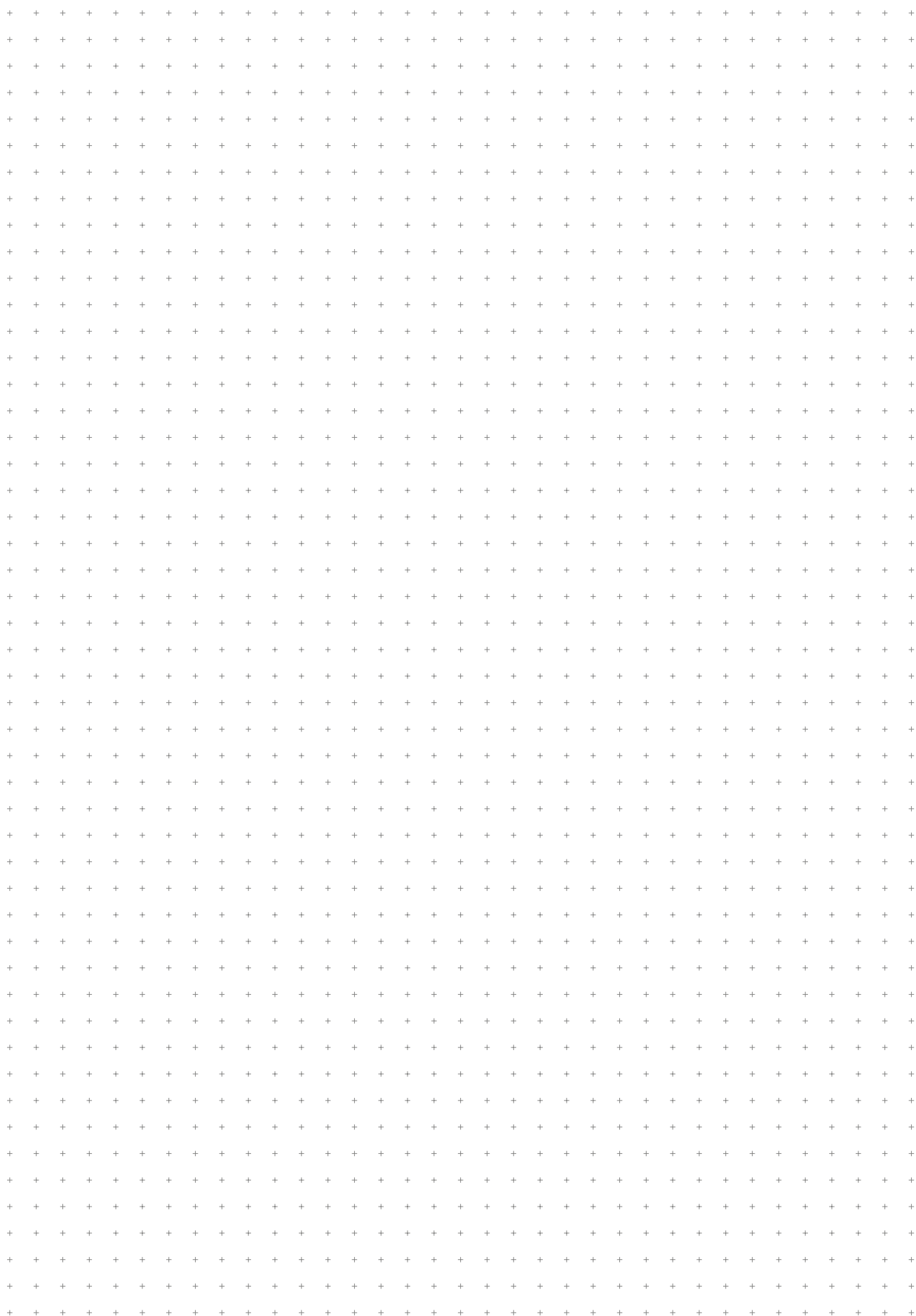


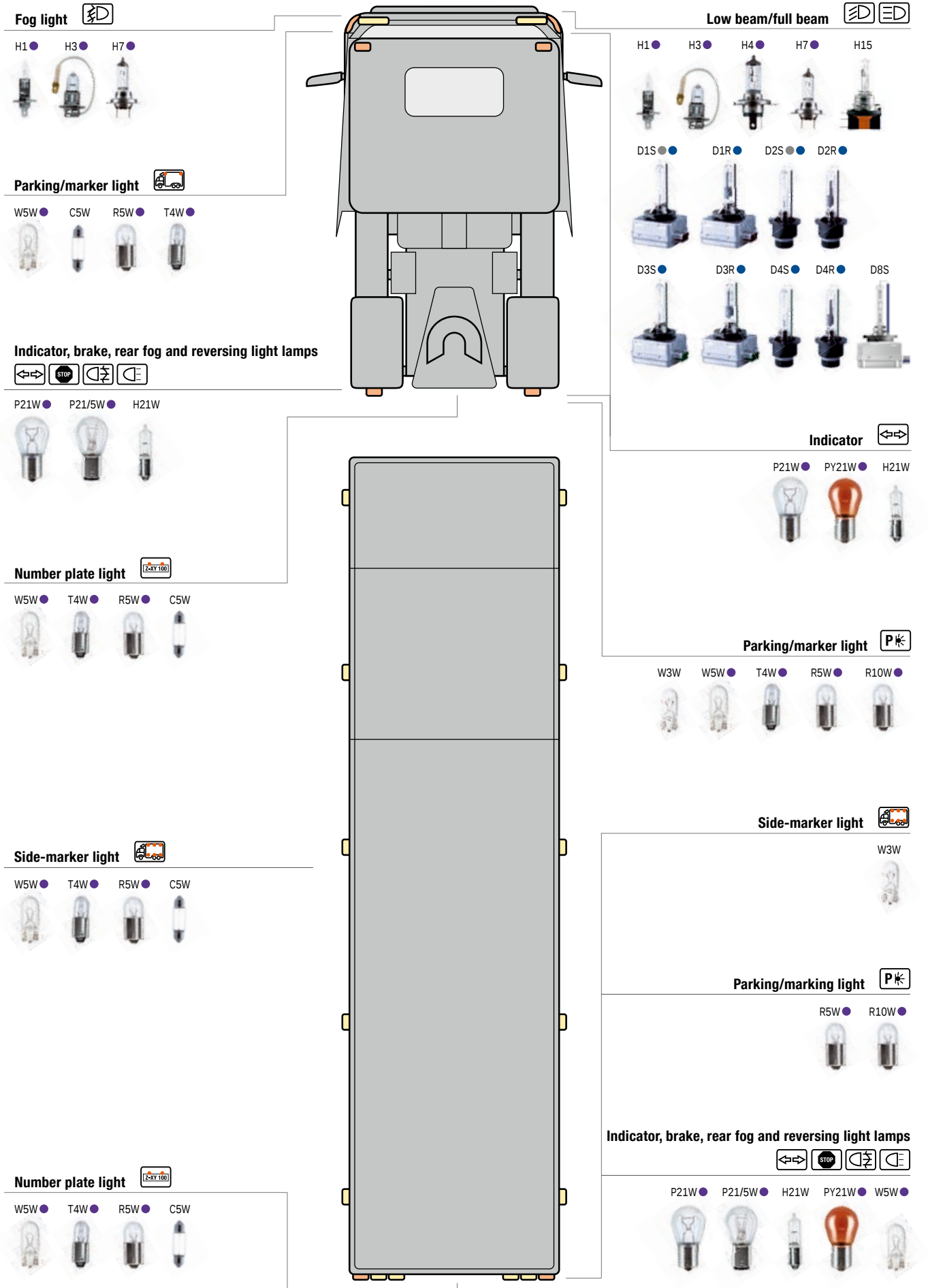
Symbols

	Int. category label ECE
	Rated wattage in watts
	Power consumption in watts
	Voltage in volts
	Test voltage in volts
	Luminous flux in lumens
	Lifespan (h)
	Illuminance in lux
	Color temperature in K
	Light color
	Time (h) after failure of 63.2 % of lamps
	Information
	Battery
	Base
	Fig. no.
	Weight
	Width b in mm
	Height h in mm
	Length l in mm
	Shipping unit
	Single packaging

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Low beam/full beam 

H1 ●●●○ H3 ●●●○ H4 ●●●○ H7 ●●●○ H9 H11 ●●○ H15 ● R2 HB2

HB3 ●● HB4 ●● HB5 H27W/1 H27W/2 HIR1 HIR2

D1S ●● D1R ● D2S ●● D2R ●●

D3S ● D3R ● D4S ● D4R ● D8S

Front indicator 

W21W P21W ● PY21W ●●● H21W HY21W

Brake light 

W21W P21W ●

Brake light/tail light 

P21/4W W21/5W P21/5W ●

Tail light 

W5W ●● T4W ● R5W ● R10W ●

C5W ● P21/4W P21W ●

Reversing light 

W16W W21W P21W ● W21/5W P21/5W ●

Fog light 

H1 ●●●○ H3 ●●●○ H7 ●●●○ H8 ●

H11 ●●○ HB3 ●● HB4 ●●

Parking/marker light 

W3W W5W ●● T4W ●

R5W ● H6W ●

Side indicator 

W5W ●● WY5W ●●

Rear indicator 

W16W W21W P21W ●

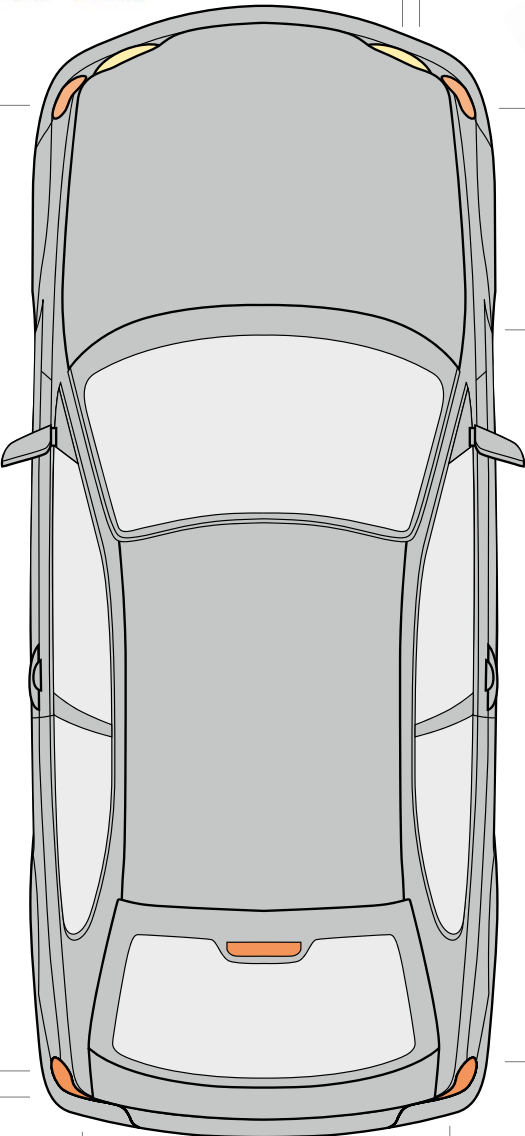
PY21W ●●● H21W WY16W

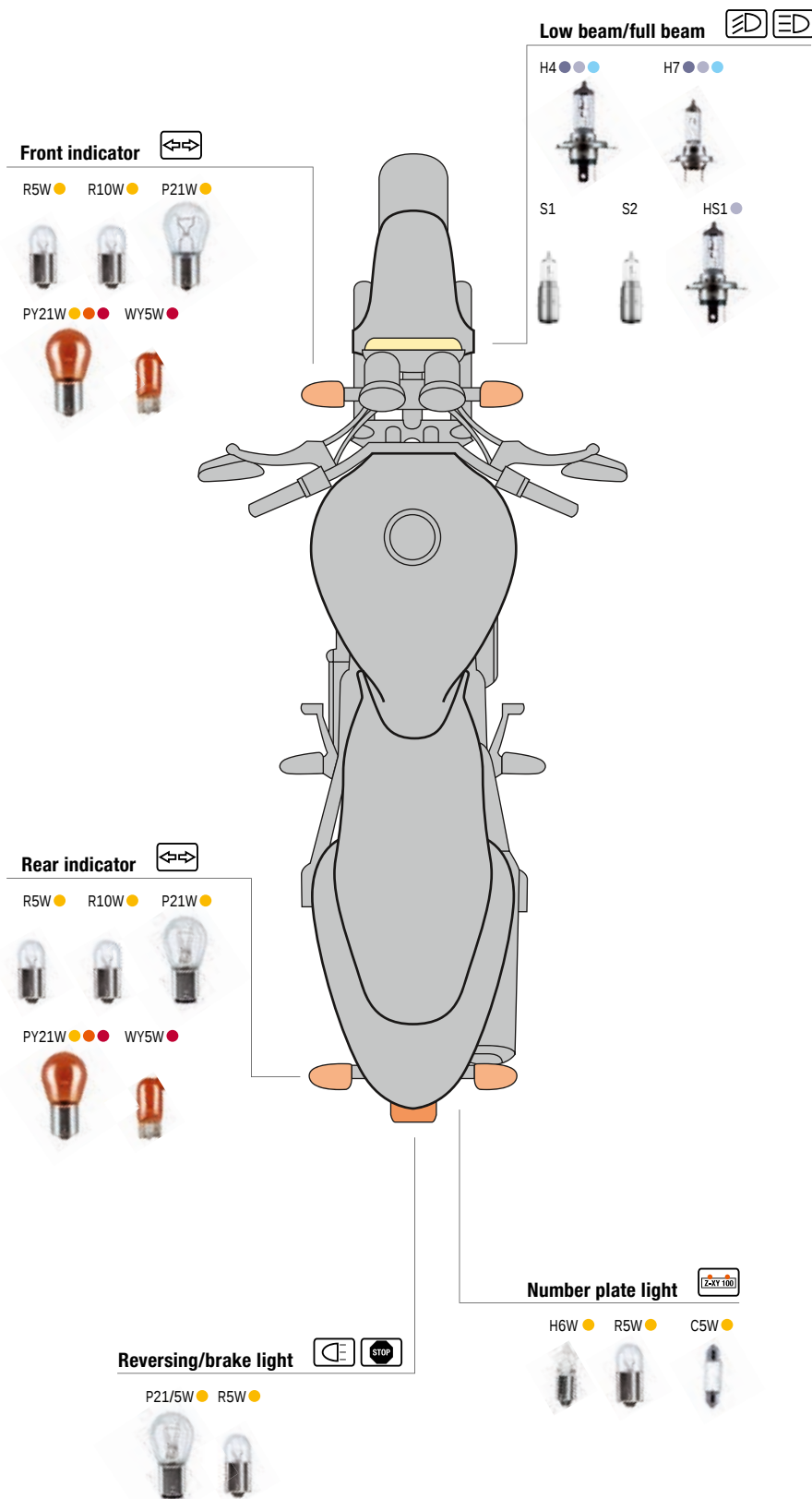
Rear fog light 

P21/4W W21W P21W ● W21/5W P21/5W ●

Number plate light 

W5W ●● T4W ● R5W ● R10W ● C5W ●





Halogen Lighting

● NIGHT BREAKER® UNLIMITED (page 34)

- Up to 110 % more light on the road¹⁾

○ SILVERSTAR® 2.0 (page 36)

- Up to 60 % more light on the road¹⁾

● COOL BLUE® INTENSE (page 38)

- Bluish-white light for xenon look

● DIADEM® CHROME (page 40)

- Only amber when operating, otherwise almost invisible

● DIADEM® (page 40)

- Lamps with amber or red light emission

● ULTRA LIFE (page 42)

- Up to three times longer service life¹⁾

● NIGHT RACER® 110 (page 48)

- Up to 110 % more light on the road¹⁾

● NIGHT RACER® 50 (page 48)

- Up to 50 % more light¹⁾

● X-RACER® (page 50)

- Bluish-white light for xenon look

● TRUCKSTAR® PRO (page 52)

- Up to 110 % more light¹⁾

Xenon Lighting

● XENARC® NIGHT BREAKER® UNLIMITED (page 28)

- Up to 70 % more light on the road²⁾

● XENARC® COOL BLUE® INTENSE (page 30)

- Color temperatures up to 5,500 K

1) Compared with standard lamps

2) When compared to standard xenon lamps

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