



Automotive Bulbs

HELLA's automotive bulbs are renowned for their uncompromising adherence to the highest quality and safety standards.



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SUPERIOR ILLUMINATION

HELLA offers the most comprehensive range of automotive bulbs to suit almost any function, from passenger vehicle to heavy duty applications. The range includes incandescent, halogen and HID bulbs.



At HELLA, we have been designing, developing and manufacturing automotive lighting solutions since the motorcar was first produced.

Today HELLA automotive bulbs are renowned for their uncompromising adherence to the highest quality and safety standards. There's a HELLA bulb to suit almost every requirement.

Incandescent Bulbs

Incandescent bulbs produce light when an electric current passes through a thin filament, heating it and causing it to emit light. Incandescent bulbs become progressively dimmer over the course of their service life; heating the filament results in its erosion, vapour from this erosion condenses on the cooler glass and reduces transmission through the glass casing.

Halogen Bulbs

Halogen bulbs contain a gas mixture which consists of halogen compounds (usually compounds of iodine or bromine). Much like the incandescent bulb, light is produced by passing a current through a tungsten filament, heating it which causes it to emit light. When particles burn off the filament, they are returned by a chemical process assisted by the halogen in the bulb. This results in a relatively consistent brightness over the course of the bulb's service life. Halogen bulbs are approximately 50% more efficient than an incandescent bulb.

Xenon Gas Discharge Bulbs

Xenon bulbs produce light when an electric arc is ignited between two electrodes and subsequently passes through Xenon gas. This technology is significantly more energy efficient than the incandescent or the halogen bulb. The colour temperature emitted is comparable to daylight. As the human eye has evolved to see in daylight, Xenon lighting causes less eye strain than other bulb types, making it a more convenient and safer night lighting option. Xenon based forward lighting further assists safe driving at night by increasing the reflections of road signs and markings.

Advantages of Xenon Lighting

- Over twice the light output compared to standard halogen bulbs.
- 77% less power consumption than standard halogen bulbs.
- Light colour very similar to daylight – reduces strain on the eye.
- Steady brightness levels even if power supply varies.
- Impact and vibration resistant light arc ensures a bulb service life five times longer than standard bulbs.

Maximising Bulb Life

To maximise the operational life of an automotive bulb there are some important points to consider.

Rule of Thumb:

- 5% overvoltage halves the bulb life.
- Headlamp bulbs are rated at 13.2 volts. Signal and marker bulbs are rated at 13.5 volts.
- The light output of a tungsten filament light source is dependent on voltage.
- Low voltage causes low output and lower operational life of halogen bulbs as regeneration does not occur.
- Overvoltage causes excessive tungsten erosion and significantly shortens bulb life.



Truckstar®

Truckstar® bulbs are a new generation of high-performance halogen bulbs specifically designed to cope with the heavy duty demands of 24 volt heavy commercial transport applications.

Utilising innovative single-coil filaments, Truckstar® halogen bulbs offer significantly increased service life of up to 100% when compared to standard halogen bulbs. They also feature superior vibration resistance during extended periods of operation, leading to reduced vehicle servicing costs and downtime.

In addition to extended service life and improved durability, Truckstar® halogen bulbs provide up to 100% increased illumination of the road ahead when compared to a standard halogen bulb. This results in improved vision and clearer visibility of objects and traffic situations in the distance ahead, effectively reducing eyestrain and driver fatigue, adding valuable seconds to driver reaction times for improved night driving safety.

Safe for Modern Headlamps

All halogen bulb filaments produce UV radiation. If the glass casing of the bulb does not filter the UV radiation it will be harmful to the polycarbonate lenses used on most of today's vehicles.

Excessive UV radiation from the halogen or HID bulb will result in discolouration and substantially diminished light transmission of the headlamp lens. All HELLA halogen and HID automotive bulbs are UV-reduced and are safe for use in modern headlamps with polycarbonate lenses.

Replacement Bulbs

The New Zealand lighting rules state that all certified legal lamps (headlamps or tail lamps) must be fitted with an approved light source to remain legal, if the light source is replaced.

Most HELLA bulbs will be marked with an 'E mark' to show compliance. Some bulbs, to suit older vehicles or imports not originally destined for our market, may have different standards such as JIS (Japanese Industrial Standard). HELLA shows compliant bulbs under the category column in the bulb section

LED Replacement Bulbs

LED replacement bulbs are generally illegal for use in marker, signal and headlights as they do not come with a compliance marking.

To avoid failing a Warrant/Certificate of Fitness inspection, all lighting equipment must comply with the law and meet approved standards.

LIGHT OUTPUT	
Operating Voltage %	Light Output %
85	53
90	67
95	83
100	100

Based on a mean operating voltage of 100% = 13.5V or 28V.

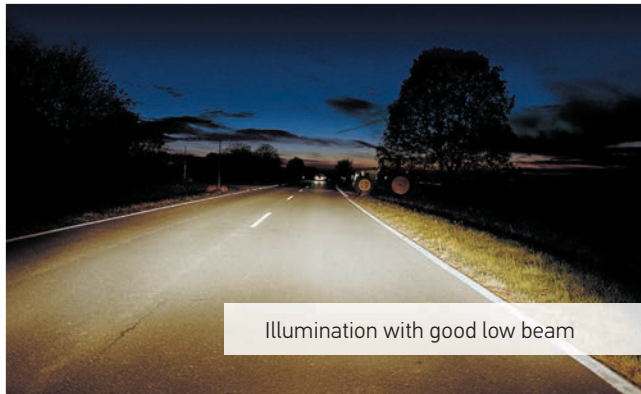
As the operating voltage drops, so does the light output. If voltage drops from 13.5V to 12.8V (-5%) then light output drops to 83%.

Hours of testing ensures a quality product HELLA is renowned for.

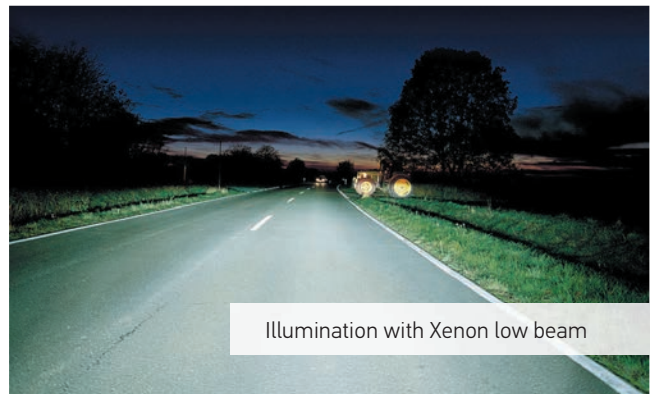


XENON GAS DISCHARGE LAMPS

Xenon based front lighting systems are among the best lighting systems available in terms of both quality and quantity.



Illumination with good low beam



Illumination with Xenon low beam

The Xenon gas discharge, or high intensity discharge (HID) bulb illuminates via a light arc that is ignited between two electrodes. This technology requires a complex electronic ballast.

To optimise and maintain a safe lighting system, additional system features are often required e.g. headlamp cleaning systems, automatic headlight range adjustment and levelling systems for ECE type approved systems.

Advantages of Xenon Light Compared to Halogen Bulbs:

- Over twice the luminous flux (light quantity/light power).
- Superior light performance (photometric efficiency).
- Significantly lower power consumption of only 35W (plus 7W for ballast).
- Lower thermal load on the system.
- Considerably longer service life.
- Light colour is closer to daylight.

Additional Regulations for Xenon Low Beam

In the ECE region, headlights with Xenon low beams may only be used in conjunction with automatic or dynamic headlight range adjustment and levelling system as well as a headlight cleaning system. This regulation takes into account the intense luminous performance of the Xenon bulb and is designed to ensure the safety of all road users.

How They Work

A sophisticated ballast supplies the ignition voltage required to ignite the gas between two electrodes. This ignition voltage can be up to 30kV in 4th generation ballasts. Inside the bulb is a mixture of inert Xenon gas, metals and metal halides, which are ionised upon ignition resulting in a powerful light arc.

During the controlled supply of alternating current (at approx. 400Hz) the liquid and solid substances evaporate, due to high internal temperatures. The lamp only achieves its full brightness after a few seconds when all the components have been ionised. To prevent destruction of the lamp through uncontrolled increases in current, the current is limited by a ballast. Once the full light output has been reached, an operating voltage (not the ignition voltage) of only 85V is necessary to maintain the physical process. The luminous flux, light output, luminance and service life of Xenon HID bulbs significantly surpasses halogen bulbs.



D2R



D2S



D1R



D1S

Fault Diagnosis

Check whether the ballast is attempting to ignite the bulb after the light has been switched on. Ignition attempts can be heard clearly near the headlight.

If ignition attempts are unsuccessful, the Xenon bulb should be checked by swapping it with one from the other headlight and the process tried again. If no ignition attempt is carried out, the fuse should be checked.

If the fuse is functional, check the voltage and ground supply directly at the ballast. Voltage must be at least 9V for 12V systems. If the voltage ground supplies and the Xenon bulbs are functional a faulty ballast is likely to be cause of the problem.

Colour Match HID Bulbs

As HID bulbs age, the colour temperature increases resulting in a whiter light. When an HID bulb is replaced with a new bulb it can look yellow compared to the original bulb, and will whiten with use. If a white light from installation is desired, a colour match bulb may be used (D2R-5K, D2S-5K) which will be a closer match to the older bulb from the first use. These bulbs are ECE compliant.

Xenon Gas Discharge (HID) Conversions

Available online and from some importers HID conversion kits, which enable the buyer to swap the halogen bulb and replace it with a non-compliant HID bulb. This illegal and dangerous combination can cause excessive glare and poses a considerable hazard for other road users. These conversion kits are illegal to use on public roads in New Zealand.

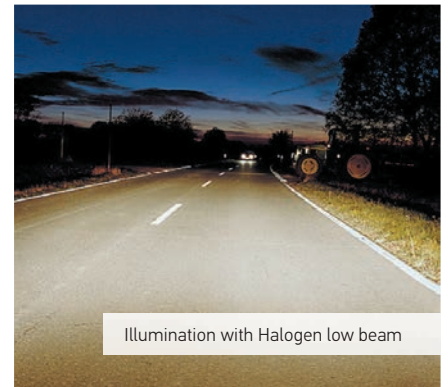
(Refer to <http://www.nzta.govt.nz> and 'Get your lights right')

	HALOGEN BULB (H7)	GAS DISCHARGE LAMP (HID)
Light source:	Filament	Light arc
Luminance:	1450 cd/m ²	3000 cd/m ²
Capacity:	55W	35W
Energy balance:	8% light radiation 92% heat radiation	28% light radiation 58% heat radiation 14% UV radiation
Service life:	Approx. 500 hours	Approx. 2500 hours
Vibration-proof:	To a certain extent	Yes
Ignition voltage:	No	Yes 23000V (3rd generation)
Electronic control:	No	Yes

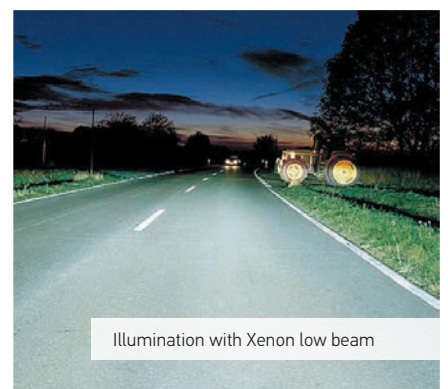
Tips for Dealing with HID Electronic Ballasts

A faulty ballast leads to complete headlight failure. Possible causes for failure of the ballast are:

- Lack of voltage/sufficient current supply.
- Lack of ground connection.
- Faulty electronics of the device.
- Internal short-circuits.



Illumination with Halogen low beam



Illumination with Xenon low beam

QUICK REFERENCE BULB GUIDE

HALOGEN HEADLAMP BULBS

H1



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H2



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H3



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H4



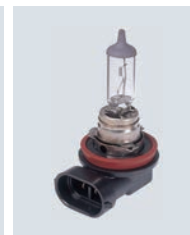
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H7



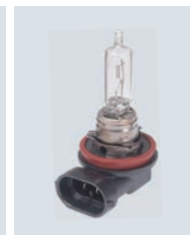
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H8



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H9



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H10



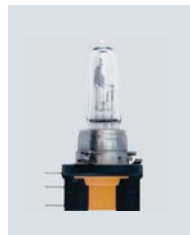
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H11



PAGE 322

H15



PAGE 323

HB3



PAGE 323

HB4



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800 SERIES



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XENON GAS DISCHARGE BULBS

D1



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D2



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D4



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CONVENTIONAL SIGNAL AND MARKER BULBS

BAYONET



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WEDGE



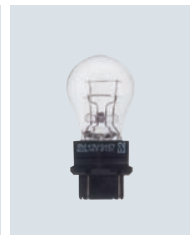
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FESTOON



PAGE 332

PLASTIC



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QUICK REFERENCE UPGRADE BULB GUIDE



COOL BLUE (CB) AND BLUE VISION (BV) – WHITER (UP TO 4200°K)

These bulbs come close to emulating the colour of a Xenon HID lamp. The high colour temperature of the Cool Blue bulbs creates the crisp white light which provides illumination that is conspicuous while being easy on the eye

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	H1	C1255CB		12V	55W	P14.5s	320
	H3	YC1255CB		12V	55W	PK22s	321
	H4	XD1260/55CB		12V	60/55W	P43t	318
	H7	CA1255CB		12V	55W	PX26d	319
	HB3	CB1265CB		12V	65W	P20d	323
	HB4	CC1255CB		12V	55W	P22d	323
	T4W	HL124BV		12V	4W	BA9s	331
	W5W	W125BV		12V	5W	W2.1 x 9.5d	329

LOGLIFE (LL) - UP TO TWICE THE LIFE













LongLife (LL) bulbs are increasing in popularity for applications such as taxis and drivers using headlamps during the day. Many new vehicles now come equipped with LongLife bulbs as a standard fitment. The bulbs will provide safe and legal light performance and can be rated at twice or greater the service life of standard bulbs.

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	H1	C1255LL		12V	55W	P14.5s	320
	H3	YC1255LL		12V	55W	PK22s	321
	H4	XD1260/55LL		12V	60/55W	P43t	318
	H7	CA1255LL		12V	55W	PX26d	319
	R5W	G125LL		12V	5W	BA15s	330
	C5W	L125LL		12V	5W	SV8.5-8	332
	P21W	R1221LL		12V	21W	BA15s	326
	P21/5W	S1221/5VLL		12V	21/5W	BAY15d	327
	W5W	W125LL		12V	5W	W2.1 x 9.5d	329
	894	CF1237-894		12V	37.5W	PGJ13	324
	898	CF1237-898		12V	37.5W	PGJ13	324



XENON (X) - UP TO + 30% BRIGHTER







This bulb outshines a standard headlamp bulb by achieving up to 30% greater illumination on the road in the 50-75m range allowing better orientation and earlier reaction to hazards.

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	H1	C1255X		12V	55W	P14.5s	320
	H3	YC1255X		12V	55W	PK22s	321
	H4	XD1260/55X		12V	60/55W	P43t	318
	H7	CA1255X		12V	55W	PX26d	319
	H11	CG1255X		12V	55W	PGJ19-2	322



XENON ULTRA (XU) - UP TO + 60% BRIGHTER

Xenon Ultra bulbs take lighting even further by providing up to 60% more illumination on the road than a standard headlamp bulb while emitting a 10-20m longer beam.

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	H1	C1255XU		12V	55W	P14.5s	320
	H4	XD1260/55XU		12V	60/55W	P43t	318
	H7	CA1255XU		12V	55W	PX26d	319

Lifetime and performance gains are compared to standard versions of the bulb. Greater performance is measured between 50 and 75m in front of vehicle.

ULTRA PLUS (UP) - UP TO + 110% BRIGHTER



Ultra Plus bulbs are the ideal bulbs for drivers looking to increase safety with more light on the road. This halogen bulb produces up to 110% more light on the road, has a beam that is up to 35 metres longer and provides light that is up to 10% whiter than a standard bulb.

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	H1	C1255UP		12V	55W	P14.5s	320
	H3	YC1255UP		12V	55W	PK22s	321
	H4	XD1260/55UP		12V	60/55W	P43t	318
	H7	CA1255UP		12V	55W	PX26d	319
	HB3	CB1265UP		12V	65W	P20d	323
	HB4	CC1255UP		12V	55W	P22d	323
	H11	CG1255UP		12V	55W	PGJ19-2	322

TRUCKSTAR® PRO - UP TO 2.5 TIMES THE LIFETIME AND 100% GREATER ILLUMINATION.



At night, truck drivers need the best possible light on the road ahead. Truckstar® Pro out-performs conventional 24V bulbs, allowing drivers to concentrate on the essentials. With their extremely long life and robust construction, these bulbs save on replacements and downtime, reducing fleet costs

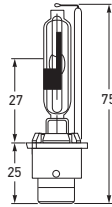
UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	H1	C2470TS		24V	70W	P14.5s	320
	H3	YC2470TS		24V	70W	PK22s	321
	H4	XD2475/70TS		24V	75/70W	P43t	318
	H7	CA2470TS		24V	70W	PX26d	319
	R5W	G245-TS		24V	5W	BA15s	330
	R10W	G2410-TS		24V	10W	BA15s	330
	T4W	HL244-TS		24V	4W	BA9s	331
	P21W	R2421-TS		24V	21W	BA15s	326




P/N D2R



P32d-3



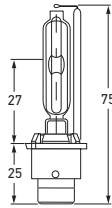
D2 - COLOUR MATCH BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
D2R	12/24V	35W	P32d-3	D2R
D2R-5K	 12/24V	35W	P32d-3	D2R




P/N D2S



P32d-2



D2S	12/24V	35W	P32d-2	D2S
D2S-5K	 12/24V	35W	P32d-2	D2S

See page 311 for further information on colour match bulbs (5K).
See page 146 for information on power packs and ballast leads.



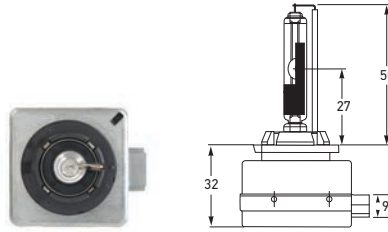
P/N HMXN4YEL



P32d-2/3

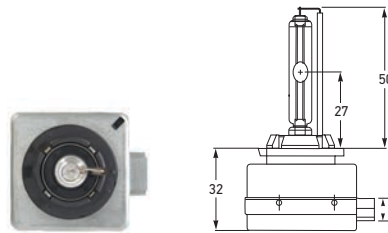
D2S - SUITABLE FOR WORK LAMPS (AMBER)				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
HMXN4YEL	12/24V	35W	P32d-2/3	

AUTOMOTIVE BULBS



P/N D1R

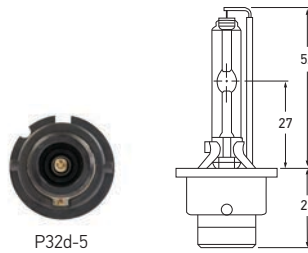
D1				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
D1R	12/24V	35W	PK32d-3	D1R



P/N D1S

D1S	12/24V	35W	PK32d-2	D1S
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See page 146 for information on power packs and ballast leads.

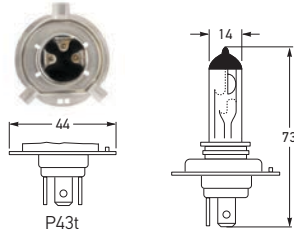


P/N D4S

D4S				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
D4S	12/24V	35W	P32d-5	D4S



P/N XD1260/55UP



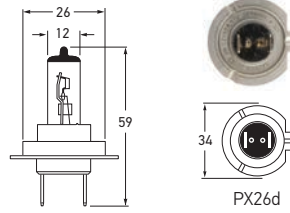
P/N XD1260/55X



P/N XD2475/70

HALOGEN BULBS - H4				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
XD1260/55	12V	60/55W	P43t	H4
XD1260/55-BULK	12V	60/55W	P43t	H4
XD1260/55LL	12V	60/55W	P43t	H4
XD1260/55X	12V	60/55W	P43t	H4
XD1260/55X-BULK	12V	60/55W	P43t	H4
XD1260/55XU	12V	60/55W	P43t	H4
XD1260/55UP	12V	60/55W	P43t	H4
XD1260/55CB	12V	60/55W	P43t	H4
XD12100/90	12V	100/90W	P43t	
XD12100/90-BULK	12V	100/90W	P43t	
XD2475/70	24V	75/70W	P43t	H4
XD2475/70-BULK	24V	75/70W	P43t	H4
XD2475/70TS	24V	75/70W	P43t	H4
XD2475/70TSBULK	24V	75/70W	P43t	H4
XD24100/90	24V	100/90W	P43t	
XD24100/90-BULK	24V	100/90W	P43t	

Bulk packs supplied in single cartons.



HALOGEN BULBS - H7					
Part Number		Voltage	Power Consumption	Base	ADR 51/00 Category
CA1255		12V	55W	PX26d	H7
CA1255-BULK		12V	55W	PX26d	H7
CA1255LL		12V	55W	PX26d	H7
CA1255X		12V	55W	PX26d	H7
CA1255XU		12V	55W	PX26d	H7
CA1255UP		12V	55W	PX26d	H7
CA1255CB		12V	55W	PX26d	H7
CA2470		24V	70W	PX26d	H7
CA2470-BULK		24V	70W	PX26d	H7
CA2470TS		24V	70W	PX26d	H7
CA2470TS-BULK		24V	70W	PX26d	H7

Bulk packs supplied in single cartons.



P/N CA1255UP



P/N CA2470TS



P/N C1255



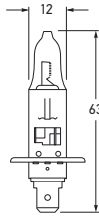
P/N C1255UP



P/N C1255CB



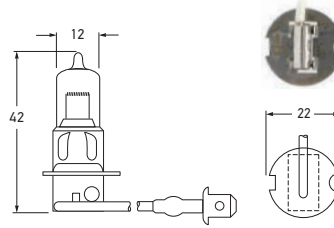
P14.5s









HALOGEN BULBS - H1					
Part Number		Voltage	Power Consumption	Base	ADR 51/00 Category
C1255		12V	55W	P14.5s	H1
C1255-BULK		12V	55W	P14.5s	H1
C1255LL		12V	55W	P14.5s	H1
C1255X		12V	55W	P14.5s	H1
C1255XU		12V	55W	P14.5s	H1
C1255UP		12V	55W	P14.5s	H1
C1255CB		12V	55W	P14.5s	H1
C12100		12V	100W	P14.5s	
C2470		24V	70W	P14.5s	H1
C2470-BULK		24V	70W	P14.5s	H1
C2455		24V	55W	P14.5s	
C2455-BULK		24V	55W	P14.5s	
C2470TS		24V	70W	P14.5s	H1
C2470TS-BULK		24V	70W	P14.5s	H1
C24100		24V	100W	P14.5s	
C24100-BULK		24V	100W	P14.5s	

Bulk packs supplied in single cartons.

AUTOMOTIVE BULBS



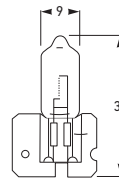
P/N YC1255UP

HALOGEN BULBS - H3				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
YC1255	12V	55W	PK22s	H3
YC1255-BULK	12V	55W	PK22s	H3
YC1235	12V	35W	PK22s	
YC1255LL	 12V	55W	PK22s	H3
YC1255X	 12V	55W	PK22s	H3
YC1255UP	 12V	55W	PK22s	H3
YC1255CB	 12V	55W	PK22s	H3
YC12100	12V	100W	PK22s	
YC12100-BULK	12V	100W	PK22s	
YC2470	24V	70W	PK22s	H3
YC2470-BULK	24V	70W	PK22s	H3
YC2455	24V	55W	PK22s	
YC2455-BULK	24V	55W	PK22s	
YC2470TS	 24V	70W	PK22s	H3
YC2470TS-BULK	 24V	70W	PK22s	H3
YC24100	24V	100W	PK22s	
YC24100-BULK	24V	100W	PK22s	



P/N YC2470TS

Bulk packs supplied in single cartons.



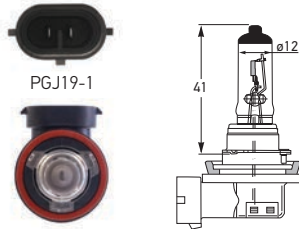
HALOGEN BULBS - H2				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CD1255	12V	55W	X511	H2
CD2470	24V	70W	X511	H2



P/N CD2470



P/N CE1235

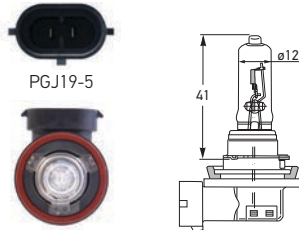


HALOGEN BULBS - H8

Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CE1235	12V	35W	PGJ19-1	H8



P/N CF1265

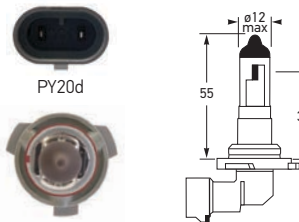


HALOGEN BULBS - H9

Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CF1265	12V	65W	PGJ19-5	H9



P/N CH1242

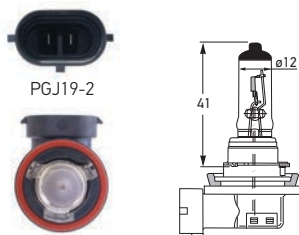


HALOGEN BULBS - H10

Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CH1242	12V	42W	PY20d	H10



P/N CG1255



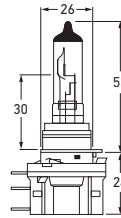
HALOGEN BULBS - H11

Part Number		Voltage	Power Consumption	Base	ADR 51/00 Category
CG1255		12V	55W	PGJ19-2	H11
CG1255X		12V	55W	PGJ19-2	H11
CG1255UP		12V	55W	PGJ19-2	H11
CG1255CB		12V	55W	PGJ19-2	H11
CG2470		24V	70W	PGJ19-2	H11



P/N CG1255UP

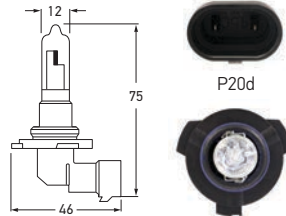
AUTOMOTIVE BULBS



DAYTIME RUNNING LAMP AND FOG LAMP BULB				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
XH1215/55	12V	15/55W	PGJ23t-1	H15



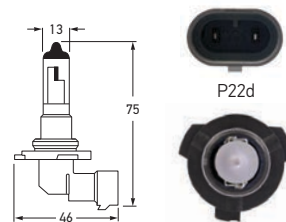
P/N XH1215/55



HALOGEN BULBS - HB3 (9005)				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CB1265	12V	65W	P20d	HB3
CB1265UP	12V	65W	P20d	HB3
CB1265CB	12V	65W	P20d	HB3



P/N CB1265UP



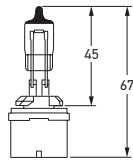
HALOGEN BULBS - HB4 (9006)				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CC1255	12V	55W	P22d	HB4
CC1255UP	12V	55W	P22d	HB4
CC1255CB	12V	55W	P22d	HB4



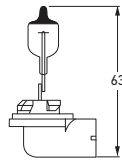
P/N CC1255UP



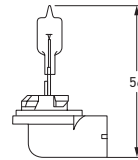
P/Ns CF1237-862,
CF1237-894, CF1250-886,
CF1227-889.



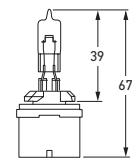
P/N CF1227-880



P/N CF1227-881



P/N CF1227-889



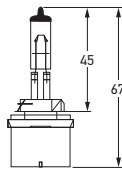
P/N CF1227-890

HALOGEN BULBS - 800 SERIES

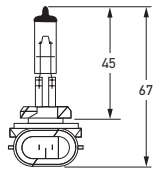
Part Number	Picture	Voltage	Power Consumption	Base	ADR 51/00 Category
CF1227-880	4	12V	27W	PG13	880
CF1227-881	2	12V	27W	PGJ13	881
CF1227-889	1	12V	27W	PGJ13	889
CF1227-890	3	12V	27W	PG13	890



P/Ns CF1227-881,
CF1227-H27W/2 CF1237-896,
CF1237-898.



P/N CF1227-H27W/1

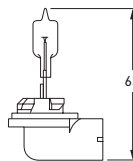


P/N CF1227-H27W/2

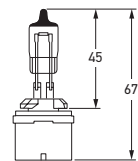
CF1227-H27W/1	4	12V	27W	PG13	H27W/1
CF1227-H27W/2	2	12V	27W	PGJ13	H27W/2



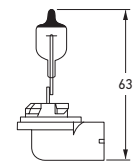
P/Ns CF1227-890,
CF1250-885.



P/N CF1237-862/894



P/N CF1237-893

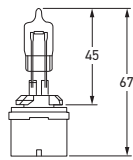


P/N CF1237-896/898

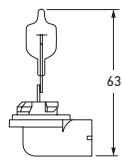
CF1237-862	1	12V	37.5W	PGJ13	862
CF1237-893	4	12V	37.5W	PG13	893
CF1237-894	1	12V	37.5W	PGJ13	894
CF1237-896	2	12V	37.5W	PGJ13	896
CF1237-898	2	12V	37.5W	PGJ13	898



P/Ns CF1227-880,
CF1227-H27W/1,
CF1237-893.



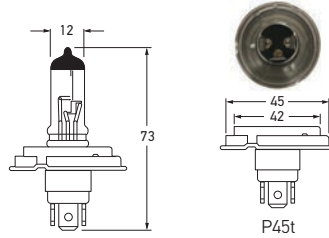
P/N CF1250-885



P/N CF1250-886

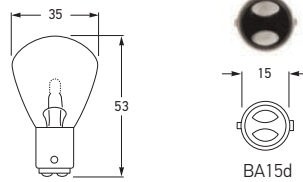
CF1250-885	3	12V	50W	PG13	885
CF1250-886	1	12V	50W	PGJ13	886

AUTOMOTIVE BULBS



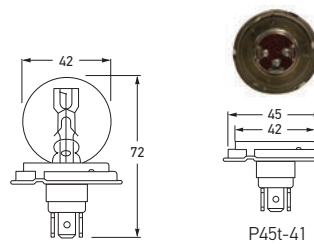
P/N XE1260/55

HALOGEN HEADLAMP BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
XE1260/55	12V	60/55W	P45t-41	
XE2475/70	24V	70/75W	P45t-41	



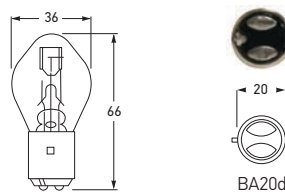
P/N 1235/35

HEADLAMP BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
1235/35	12V	35/35W	BA15d	



P/N A1245/40

A1245/40	12V	45/40W	P45t-41	R2
A2455/50	24V	55/50W	P45t-41	R2

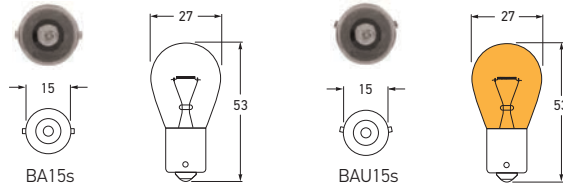




P/N B1245/40

B1245/40	12V	45/40W	BA20d	
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P/N R1221



BAYONET INDICATOR AND STOP LAMP BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
R1221	12V	21W	BA15s	P21W
R1221-BULK	12V	21W	BA15s	P21W
R1221LL	 12V	21W	BA15s	P21W
RY1221	12V	21W	BAU15s	PY21W
RY1221-BULK	12V	21W	BAU15s	PY21W
R2418	24V	18W	BA15s	
R2421	24V	21W	BA15s	P21W
R2421-BULK	24V	21W	BA15s	P21W
R2421-TS	 24V	21W	BA15s	P21W
RY2421	24V	21W	BAU15s	PY21W

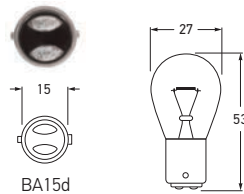
Bulk bulbs (other than Halogen) are sold in packs of 10.



P/N RY1221

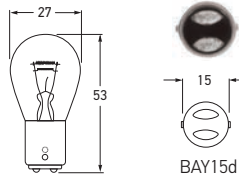


P/N FD1221




FD1221	12V	21W	BA15d	PY21W
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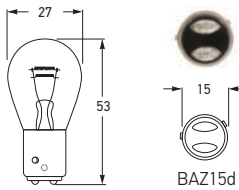
AUTOMOTIVE BULBS



P/N S1221/5V

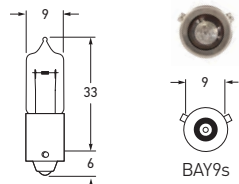
BAYONET STOP AND TAIL LAMP BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
S1221/5V	12V	21/5W	BAY15d	P21/5W
S1221/5V-BULK	12V	21/5W	BAY15d	P21/5W
S1221/5VLL 	12V	21/5W	BAY15d	P21/5W
S2421/5V	24V	21/5W	BAY15d	P21/5W
S2421/5V-BULK	24V	21/5W	BAY15d	P21/5W

Bulk bulbs (other than Halogen) are sold in packs of 10.



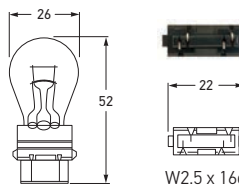
P/N SZ1221/4

BAYONET EUROPEAN STOP AND TAIL LAMP BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
SZ1221/4	12V	21/4W	BAZ15d	P21/4W



P/N RQ1221

BAYONET HALOGEN INDICATOR AND STOP LAMP BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
RQ1221	12V	21W	BAY9s	H21W
RQ2421	24V	21W	BAY9s	H21W



P/N WP1227/7

P/N WPA1227/7

PLASTIC BASED BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
WP1227	12V	27W	W2.5 x 16d	P27W
WP1227/7	12V	27/7W	W2.5 x 16q	P27/7W
WPA1227/7	12V	27/7W	W2.5 x 16q	P27/7W



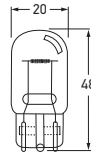
P/N CAP1221



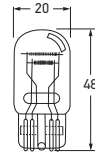
P/N CAPY1221



W3 x 16d



W3 x 16d



W3 x 16q

WEDGE BASE BULBS

Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CAP1221	12V	21W	W3 x 16d	W21W
CAP1221-BULK	12V	21W	W3 x 16d	W21W
CAPY1221	12V	21W	W3 x 16d	WY21W
CAP1221/5	12V	21/5W	W3 x 16q	W21/5W
CAP1221/5-BULK	12V	21/5W	W3 x 16q	W21/5W

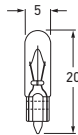
Bulk bulbs (other than Halogen) are sold in packs of 10.



P/N WBL122

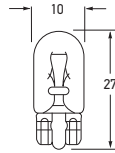


W2 x 4.6d



W121.2	12V	1.2W	W2 x 4.6d
W121.2-BULK	12V	1.2W	W2 x 4.6d
WBL122	12V	2W	W2 x 4.6d
WS122	12V	2W	W2 x 4.6d
W241.2	24V	1.2W	W2 x 4.6d
W241.2-BULK	24V	1.2W	W2 x 4.6d
WS242	24V	2W	W2 x 4.6d

Bulk bulbs (other than Halogen) are sold in packs of 10.



W2.1 x 9.5d



P/N W122



P/N W125BV





P/N WY125



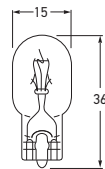
P/N W1216



P/N WLED125

WEDGE BASE BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
W122	12V	2W	W2.1 x 9.5d	
W123	12V	3W	W2.1 x 9.5d	W3W
W125	12V	5W	W2.1 x 9.5d	W5W
W125-BULK	12V	5W	W2.1 x 9.5d	W5W
W125LL	 12V	5W	W2.1 x 9.5d	W5W
W125BV	 12V	5W	W2.1 x 9.5d	W5W
WY125	12V	5W	W2.1 x 9.5d	WY5W
W242-BULK	24V	2W	W2.1 x 9.5d	
W243	24V	3W	W2.1 x 9.5d	W3W
W245	24V	5W	W2.1 x 9.5d	W5W
W245-BULK	24V	5W	W2.1 x 9.5d	W5W

Bulk bulbs (other than Halogen) are sold in packs of 10.



W2.1 x 9.5d

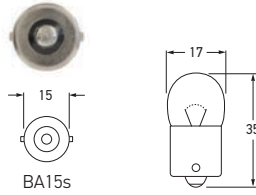
WS1212	12V	12W	W2.1 x 9.5d	
W1216	12V	16W	W2.1 x 9.5d	W16W
W1221	12V	21W	W2.1 x 9.5d	

LED RETROFITS				
Part Number	Voltage	Power Consumption	Base	Temperature
WLED125	12V	1W	W2.1x9.5d	6000°K
WLED125-WW	12V	1W	W2.1x9.5d	4000°K




Not for use in marker and signal lamps. WW = warm white.



P/N G125



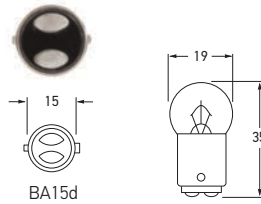
REAR POSITION, MARKER AND CLEARANCE BULBS

Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
G125	12V	5W	BA15s	R5W
G125-BULK	12V	5W	BA15s	R5W
G125LL 	12V	5W	BA15s	R5W
G1210	12V	10W	BA15s	R10W
G1210-BULK	12V	10W	BA15s	R10W
G245	24V	5W	BA15s	R5W
G245-BULK	24V	5W	BA15s	R5W
G245-TS 	24V	5W	BA15s	R5W
G2410	24V	10W	BA15s	R10W
G2410-BULK	24V	10W	BA15s	R10W
G2410-TS 	24V	10W	BA15s	R10W

Bulk bulbs (other than Halogen) are sold in packs of 10.

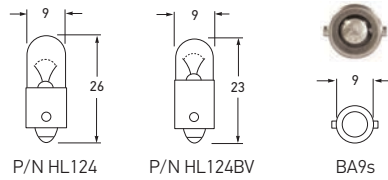


P/N GD125



GD125	12V	5W	BA15d	R5W
GD245	24V	5W	BA15d	R5W

AUTOMOTIVE BULBS





P/N HL124

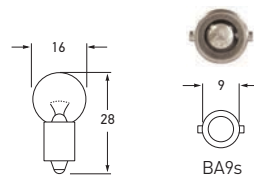


P/N HL124BV



P/N H126

PILOT/DASH BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
HL124	12V	4W	BA9s	T4W
HL124-BULK	12V	4W	BA9s	T4W
HL124BV 	12V	4W	BA9s	T4W
HL244	24V	4W	BA9s	T4W
HL244-BULK	24V	4W	BA9s	T4W
HL244-TS 	24V	4W	BA9s	T4W
HL247	24V	7W	BA9s	



H122	12V	2W	BA9s	
H123	12V	3W	BA9s	
H123-BULK	12V	3W	BA9s	
H126	12V	6W	BA9s	
H126-BULK	12V	6W	BA9s	
H1210	12V	10W	BA9s	
H242	24V	2W	BA9s	
H242-BULK	24V	2W	BA9s	

Bulk bulbs (other than Halogen) are sold in packs of 10.

LED RETROFITS				
Part Number	Voltage	Power Consumption	Base	Temperature
HLLED124	12V	1W	BA9s	6000°K
HLLED124-WW	12V	1W	BA9s	4000°K

Not for use in marker and signal lamps. WW = warm white.



P/N HLLED124



P/N K1221



P/N K2410



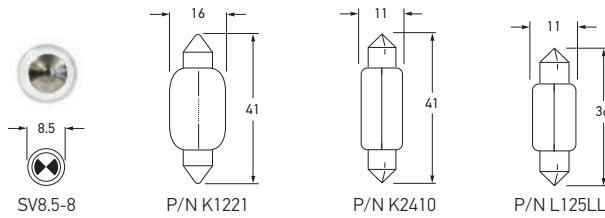
P/N L125LL




P/N M123

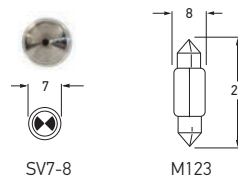


P/N N1210

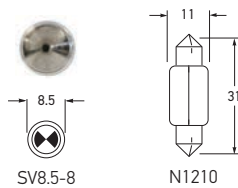


FESTOON BULBS

Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
K1210	12V	10W	SV8.5-8	
K1210-BULK	12V	10W	SV8.5-8	
K1221	12V	21W	SV8.5-8	C21W
K1221-BULK	12V	21W	SV8.5-8	C21W
K2410	24V	10W	SV8.5-8	
K2410-BULK	24V	10W	SV8.5-8	
K2421	24V	21W	SV8.5-8	
K2421-BULK	24V	21W	SV8.5-8	
L125	12V	5W	SV8.5-8	C5W
L125-BULK	12V	5W	SV8.5-8	C5W
L125LL	 12V	5W	SV8.5-8	C5W
L1210	12V	10W	SV8.5-8	
L245	24V	5W	SV8.5-8	C5W
L245-BULK	24V	5W	SV8.5-8	C5W
L2410	24V	10W	SV8.5-8	
L2410-BULK	24V	10W	SV8.5-8	



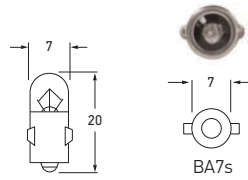
M123	12V	3W	SV7-8	
M123-BULK	12V	3W	SV7-8	
M243	24V	3W	SV7-8	
M243-BULK	24V	3W	SV7-8	



N1210	12V	10W	SV8.5-8	
N1210-BULK	12V	10W	SV8.5-8	

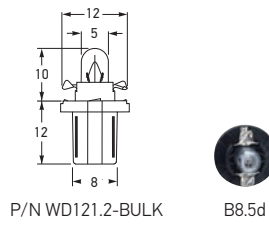
Bulk bulbs (other than Halogen) are sold in packs of 10.

AUTOMOTIVE BULBS



P/N J122

MINIATURE BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
J122	12V	2W	BA7s	
J243	24V	3W	BA7s	



P/N WD121.2-BULK

DASHBOARD BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
WD121.2-BULK	12V	1.2W	B8.5d	
WD241.2-BULK	24V	1.2W	B8.5d	

Bulk bulbs (other than Halogen) are sold in packs of 10.

LED RETROFITS				
Part Number	Voltage	Power Consumption	Base	Temperature
LLED125	12V	1W	SV8.5-8	6000°K
LLED125-WW	12V	1W	SV8.5-8	4000°K

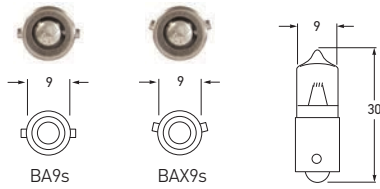
Not for use in marker and signal lamps. WW = warm white.



P/N LLED125



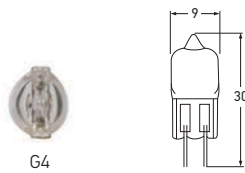
P/N YL125



HALOGEN/INTERIOR BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
YL125	12V	5W	BA9s	
YL126	12V	6W	BAX9s	H6W
YL1210	12V	10W	BA9s	
YL1220	12V	20W	BA9s	



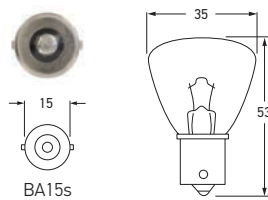
P/N YM1210



YM125	12V	5W	G4	
YM1210	12V	10W	G4	
YM1220	12V	20W	G4	
YM2410	24V	10W	G4	
YM2420	24V	20W	G4	



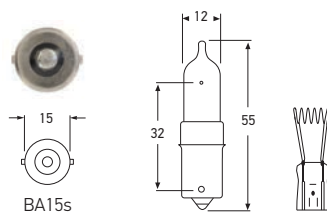
P/N U1245



SPECIAL BULBS FOR EMERGENCY FLASHER AND REVOLVING LAMPS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
U1245	12V	45W	BA15s	
U2445	24V	45W	BA15s	



P/N YL1250TF



YL1250TF	12V	50W	BA15s	
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FLUORESCENT TUBES			
Part Number	Voltage	Power Consumption	To Suit
9.2642.02	12/24V	7W	P/Ns 2642 and 2642-24V
9.2643.02	12/24V	11W	P/Ns 2643 and 2643-24V
TL8W/336J	12/24V	8W	P/Ns 2644 and 2644-24V



STROBE TUBES				
Part Number	Voltage	Power Consumption	Base	To Suit
XN000	12-72V	2 Joules	Circuit Board	Firebolt
XN451	12-48V	8 Joules	Circuit Board	Pulsator 451
XN602	12-48V	12 Joules	Circuit Board	602 Series
XN850	12-48V	12 Joules	Circuit Board	851 Series
XN6000	12/24V	10+2 Joules		KLX Junior
XN7000	12/24V	10+2 Joules	X1	KLX 7000

