

POWERTEC CONTROL INSTRUMENT

tvzs



tec

EXL LAMPS

STANDARDS



**ENERGY
SAVING**



Replaced by



- 10** tenfold brightness
- 10** tenfold lifetime
- 20** twenty percent energy consumption

Incandescent Lamps

EXL LAMP

EXL LAMP'S BENEFITS

1. High luminous efficiency

EXL lamp's efficiently achieve 140LM / W equivalent to ceramic metal lamp and two times higher than ordinary metal halide lamps.

2. High colour rendering

EXL lamps gives full spectrum light that is close to daylight with a CRI (colour rendering index) of up to 94. EXL gives more clear and natural-looking light than the old mercury-vapour and sodium-vapour lamps. It Provides noticeable stability and consistency in lamp-to-lamp colour, initially and throughout life.

3. Long Life

Up to 20,000 hrs life, which is approx 2 times longer than ordinary metal halide lamps.

4. EXLs turn on instantly

Shorter cold and hot Start-up time than ordinary metal halide lamps and CDM lamps.

5. Low energy consumption, save money on electricity

Energy saving, up to 80% less energy consumption than most conventional lighting products. With less thermal radiation make running costs reduced.

6. Cost effective replacement

With replacement costs every 3 or more years, low electrical bills and an affordable purchase price. EXL lamps have become the common replacement for many types of conventional lighting applications

7. Wide range of application

Can be used in all the required areas of lighting. Applications for EXL lamps include industrial lighting, commercial lighting and office lighting as well as street and solar street lighting.

*Also Available 10000 Burning Hours Lamps.

COMPARISON

HPSV vs. EXL



70 w 70 w 70 w

Sodium Lamp



70 w

EXL Lamp

MH Lamp 150Watt = EXL 70 Watt



Metal Halide

EXL

LED 90-100 Lux/ W = EXL 100-120 Lux/ W



CT - 5500 K
CRA - Ra70-80
LUX - 90-110/W

CT - 4300 K
CRA - Ra 90
LUX - 100-125/W

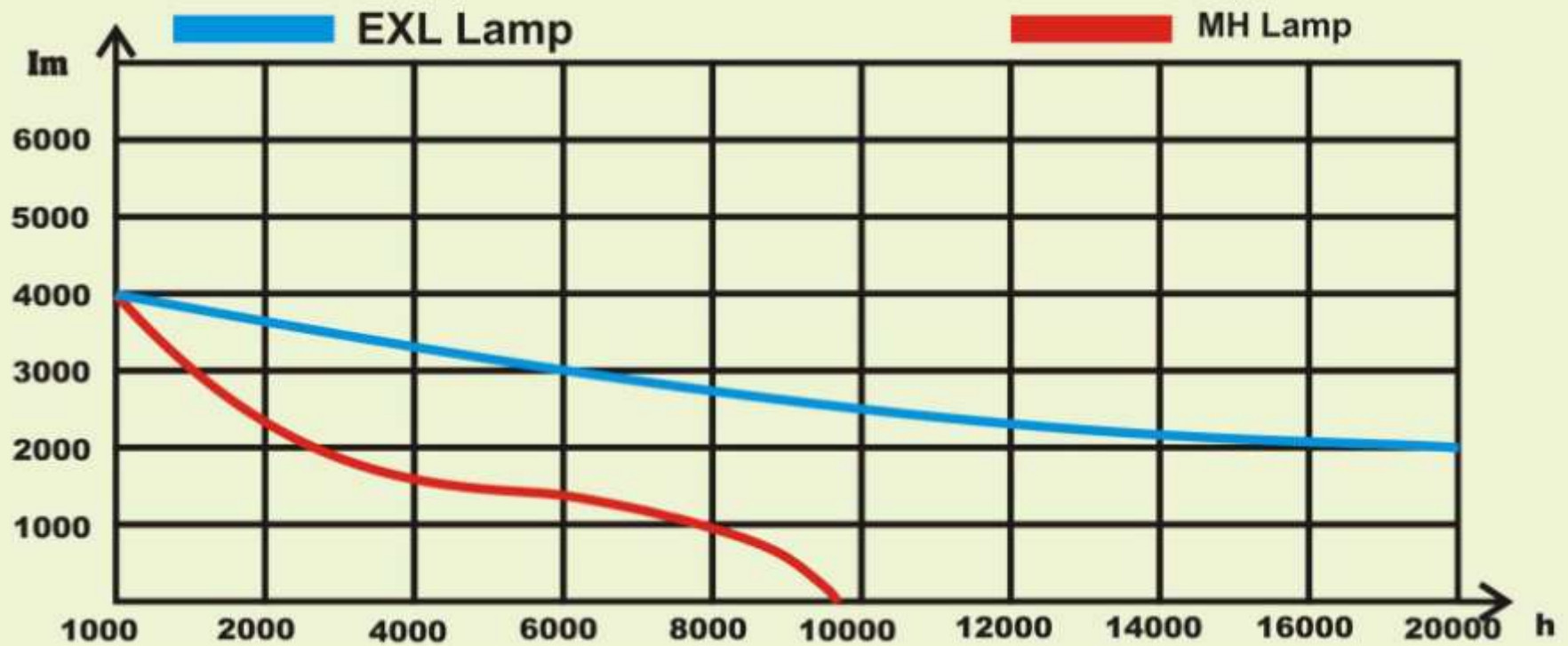
LED

EXL

LED vs. EXL

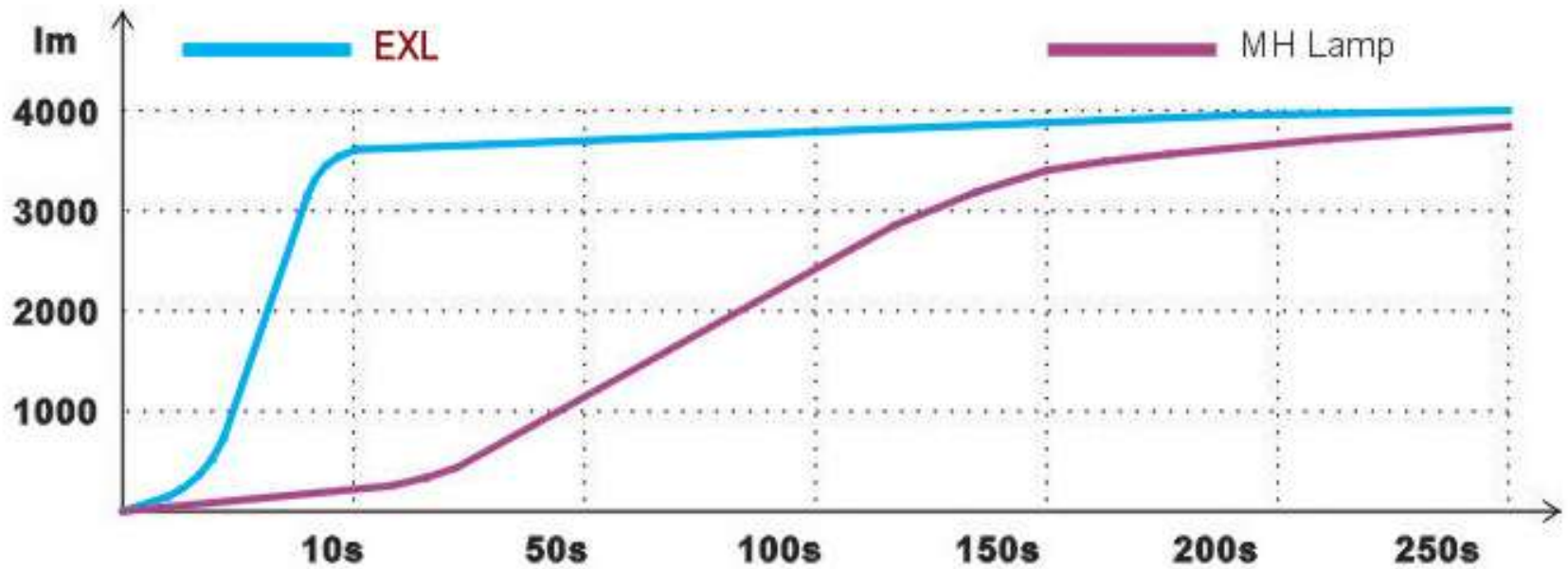
- LED 50watt = EXL 35watt
- LED 70watt = EXL 50watt
- LED 100watt = EXL 70watt
- LED 200watt = EXL 150watt

Luminous Flux Maintenance Curves of EXL & MH Lamps



Stabilizing Time Curve of EXL

Stabilizing Time Curve of EXL ,CDM & MH Lamps

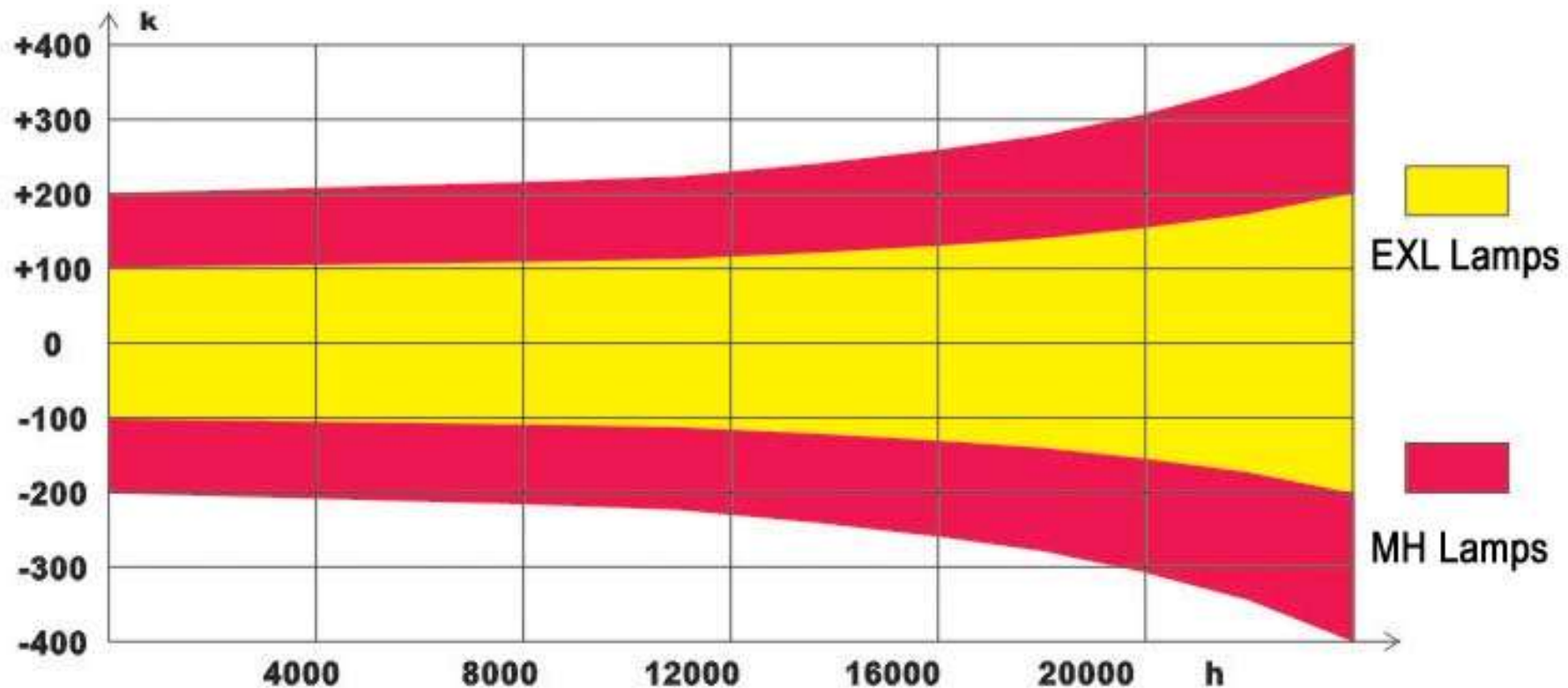


Illumination Details

Parameter	EXL		LED		HPSV	
Power (W)	35	50	36	60	150	250
Illumination LX (8 meters)	30	55	14	18	35	50
Illumination Lumens /Watt	100-120		80-90		70	
Colour temperature K	4300-6000	4300-6000	6000	6000	2300	2300
Colour -Ra	75-95	75-95	70-90	70-90	30	30

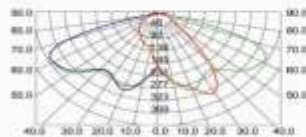
About Color Temperature

Color Temperature Variation Curves During Life time of EXL Vs MH Lamps

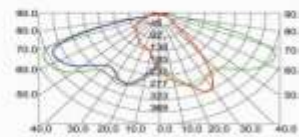




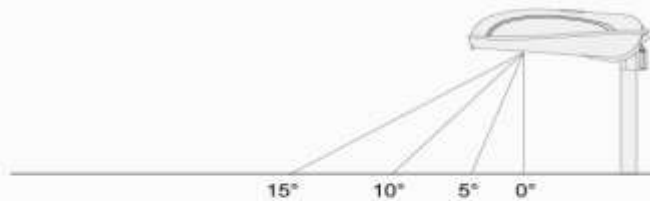
(cd/1000lm)
Light distribution curve



EXL 70 SA



EXL 150 SA



Materials and features:

High pressure die-casting aluminum alloy body, anti-corrosion and treated by electro-static powder spraying.

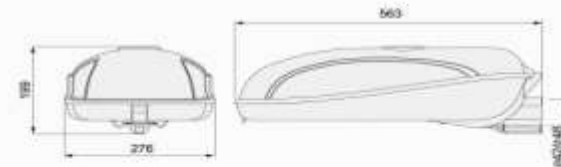
Heatproof Silicon gasket , safety tempered glass with the good transperence.

High purity anodic oxidation aluminum reflector.

Lamp can adjust up and down or around and change the projection angle.

Applicable places:

The illumination of urban roads, port and factories etc.



Item No.	Light Source	Power	cosφ	Power factor	Voltage	Lamp Type
TVZ 798-1	EXL 70 SA	70W	>	0.95	AC220V	E27/E40
TVZ 798-2	EXL 150 SA	150W	>	0.95	AC220V	E27/E40

Road light fixture Advantages

Regular fixtures



Model 728/I,IV

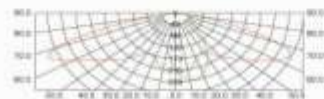




(cd/1000lm)
Light distribution curve



EXL 100 W



EXL 150 W

Materials and features:

High pressure die-casting aluminum alloy body, anti-corrosion and treated by electro-static powder spraying.

Heatproof Silicon gasket , safety tempered glass with the good transparency.

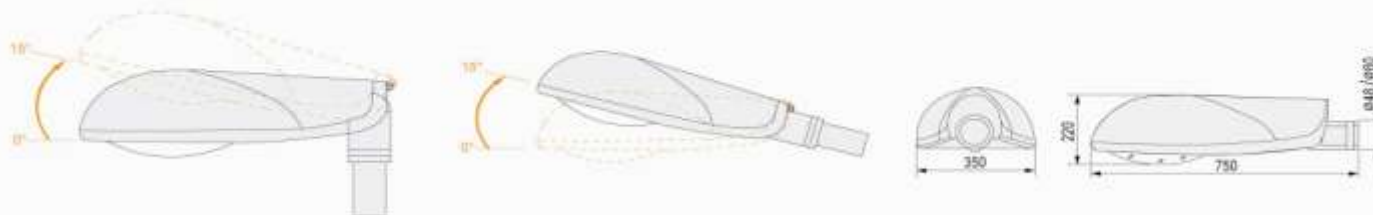
High purity anodic oxidation aluminum reflector.

Applicable places:

The illumination of urban roads, highways, over-head road, bridge, port and factories etc.

Item No.	Light Source	Power	Lamp Type
TVZ 920	EXL 100 SA	100 W	E40
TVZ 920	EXL 150 SA	150 W	E40

Mast-arm Mast-top mounting with possibility of inclination of the fixtures



Road and Parking light Light Fixtures











Down Factory Light

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LED LIGHTS



Road illumination Light Fixture

TVZ12-20 LED



Solar LED Street Light

Mono Crystalline Silicon-cell Technology
15 - 20 Years Life



Model No	Operation Time	Light Out put Lumins	Type of Luminor	Battery Type	Solar Panel Wattage	Pole High From Ground Level
TSL - 10 D-D	11 Hours	5000 to 5500 K 950-1000 Lumins	LED -50,000 Hrs Life	26 AH	35 Watt	12 Feet
TSL - 20/10 D-D	11 - 12 Hours	2000 Lumins upto 10' Clock 10-6 Clock 1000 Lumins	LED-50,000 Hrs Life	46 AH	50 Watt	12 Feet
TSL - 40/20 D-D	11-12 Hours	4000 Lumins upto 10' Clock 10-6 Clock 2000 Lumins	LED-50,000 Hrs Life	120 AH	120 Watt	15 Feet



Model Number Ts 327AC

Light source: 5 W,6 W,7W 8 W 10 WLED
Input voltage: 85 to 260V AC
Base: E27/E26 optional
Dimmer: optional
Color: white, warm white
Housing material: aluminium formation product
Lifespan: over 50,000 hours
LED bulb surface temperature: <65°C
Working temperature: <45°C
Led Make : Osram/Cree/Philips

Applications:
General Lighting, Interior lights, down lights, Home lighting, Shops, Hotels, Malls,
Schools, Collages, Offices

Mfrs By
Powertec Control Instruments
24 Dsp Compound Laxmipuram Ganapathy
Coimbatore-641006, Tamilnadu
Ph 0422 -4212559 Fax -4212659
Email :info@iintechdefence.com

Dealer

iintech
DEFENCE 
Solar Power Fence

tvzs 
tec

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- Mail:info@iintechdefence.com
- Web:www.iintechdefence.com

Contact:09944556620

Thank You
