

## Low-voltage halogen lamps without reflector



### Areas of application

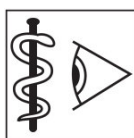
- Lamps for special luminaires
- Medical fiber optics (HLX)

### Product benefits

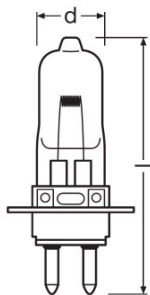
- Compared to standard lamps up to 10 % higher luminous efficacy (HLX)
- Instant light (HLX)
- Increased energy efficiency due to additional infrared coating on glass bulb (XIR)
- Compared to standard lamps up to 30 % higher luminous efficacy (XIR)

### Product features

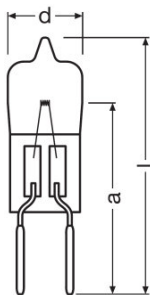
- Xenon instead of krypton as the filler gas (XENOPHOT HLX versions)
- Luminous flux up to 10 % higher with same power consumption (XENOPHOT HLX versions)
- HLX tungsten halogen low-voltage lamp with or without reflector
- Dimmable (HLX)
- XIR tungsten halogen capsule with xenon gas filling



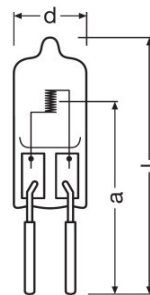
# Product family datasheet



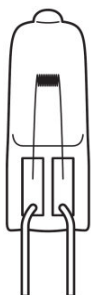
Product line drawing



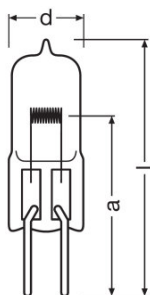
Product line drawing



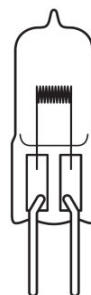
Product line drawing



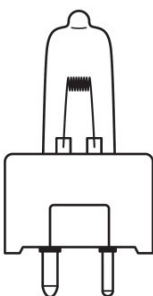
Prod.line drw, front, no dimensions



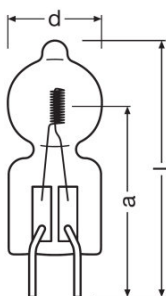
Product line drawing



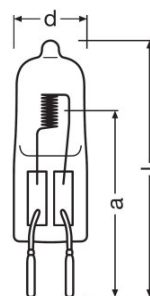
Prod.line drw, front, no dimensions



Prod.line drw, front, no dimensions

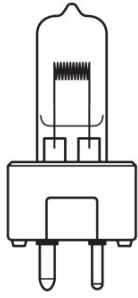


Product line drawing



Product line drawing

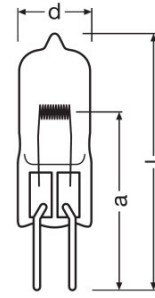
## Product family datasheet



Prod.line drw, front, no dimensions



Prod.line drw, front, no dimensions



Product line drawing

## Product family datasheet

### Technical data

Product description	Electrical data		Photometrical data		Dimensions & weight				
	Nominal wattage	Nominal voltage	Color temperature	Nominal luminous flux	Diameter	Length	Light center length (LCL)	Filament length	Illuminated field
64222 10 W 6 V	10.00 W	6 V	3050 K	150 lm	9 mm	44.0 mm	14.0 mm	1.30 mm	1.3*0.8 mm <sup>2</sup>
64225 10 W 6 V	10.00 W	6 V	3200 K	200 lm	9.5 mm	31.0 mm	19.5 mm	1.70 mm	1.7*0.65 mm <sup>2</sup>
64250 HLX	20.00 W	6 V	3350 K	460 lm	9 mm	31.0 mm	19.4 mm <sup>2)</sup>	2.30 mm	2.3*0.8 mm <sup>2</sup>
64251 HLX	20.00 W	6 V	3350 K	460 lm	9 mm	40.0 mm	14.0 mm	2.30 mm	2.3*0.8 mm <sup>2</sup>
64265 HLX	30.00 W	6 V	3200 K	765 lm	9 mm	31.0 mm	19.5 mm	1.60 mm	1.6*1.6 mm <sup>2</sup>
64275 AX	35.00 W	6 V	3350 K	755 lm	9 mm	35.0 mm	26.0 mm <sup>2)</sup>	1.30 mm	1.3*1.6 mm <sup>2</sup>
64258 20 W 12 V	20.00 W	12.0 V	3050 K	335 lm	9.5 mm	30.0 mm	19.5 mm <sup>2)</sup>	3.50 mm	3.5*0.8 mm <sup>2 3)</sup>
64260 30 W 12 V	30.00 W	12.0 V	3300 K	800 lm	9 mm	40.0 mm	14.0 mm	2.60 mm	2.6*1.3 mm <sup>2</sup>
64261 HLX	30.00 W	12.0 V	3300 K	750 lm	11.5 mm	44.0 mm	30.0 mm	2.60 mm	2.6*1.3 mm <sup>2</sup>
64602 50 W 12 V	50.00 W	12.0 V	3050 K	1000 lm	11.5 mm	44.0 mm	30.0 mm	3.00 mm	3.0*3.0 mm <sup>2</sup>
64610 HLX	50.00 W	12.0 V	3350 K	1600 lm	11.5 mm	44.0 mm	30.0 mm <sup>2)</sup>	3.30 mm	3.3*1.6 mm <sup>2</sup>
64611 HLX	50.00 W	12.0 V	3250 K	1350 lm	11.5 mm	44.0 mm	30.0 mm	3.30 mm	3.3*1.6 mm <sup>2</sup>
75 W 12 V	75.00 W	12.0 V			12.0 mm	37.0 mm			
62138 HLX	100.00 W	12.0 V	3350 K	3050 lm	11.5 mm	37.0 mm	27.0 mm	2.40 mm	2.4*1.8 mm <sup>2</sup>
64621 HLX	100.00 W	12.0 V	3300 K	2880 lm	11.5 mm	48.0 mm	18.0 mm	4.70 mm	4.7*2.7 mm <sup>2</sup>
64623 HLX	100.00 W	12.0 V	3300 K	2800 lm	11.5 mm	44.0 mm	30.0 mm	4.70 mm	4.7*2.7 mm <sup>2</sup>
64625 HLX	100.00 W	12.0 V	3450 K	3600 lm	11.5 mm	44.0 mm	30.0 mm <sup>2)</sup>	4.20 mm	4.2*2.3 mm <sup>2</sup>
64628 100 W 12 V	100.00 W	12.0 V	3500 K	3420 lm	13.0 mm	57.0 mm	27.0 mm	4.20 mm	4.2*2.3 mm <sup>2</sup>
64626 HLX <sup>1)</sup>	100.00 W	12.0 V	3450 K	3500 lm	11.5 mm	48.0 mm	18.0 mm	4.20 mm	4.2*2.3 mm <sup>2</sup>
64291 XIR	40.00 W	22.8 V	3150 K	1200 lm	12.0 mm	44.0 mm	30.0 mm <sup>4)</sup>	3.90 mm	3.9*1.4 mm <sup>2</sup>
64650 50 W 22,8 V	50.00 W	22.8 V	3100 K	1150 lm	13.0 mm	44.0 mm	30.0 mm	2.00 mm	2.0*5.0 mm <sup>2</sup>
64668 XIR	80.00 W	22.8 V	3250 K	3050 lm	14.0 mm	44.0 mm	30.0 mm <sup>2)</sup>	2.20 mm	2.2*5.5 mm <sup>2</sup>
64292 XIR	150.00 W	22.8 V	3250 K	6000 lm	14.0 mm	44.0 mm	30.0 mm <sup>2)</sup>	2.80 mm	2.8*6.7 mm <sup>2</sup>
64638 HLX	100.00 W	24.0 V	3100 K	2970 lm	13.0 mm	50.0 mm	30.0 mm	5.30 mm	5.3*2.6 mm <sup>2</sup>

## Product family datasheet

Product description	Electrical data		Photometrical data		Dimensions & weight				
	Nominal wattage	Nominal voltage	Color temperature	Nominal luminous flux	Diameter	Length	Light center length (LCL)	Filament length	Illuminated field
64647 120 W 24 V	120.00 W	24.0 V		3600 lm	13.0 mm	44.0 mm	30.0 mm	2.30 mm	2.3*6.4 mm <sup>2</sup>
64640 HLX	150.00 W	24.0 V	3450 K	6000 lm	11.5 mm	50.0 mm	31.7 mm <sup>2)</sup>	5.80 mm	5.8*2.9 mm <sup>2</sup>
64641 HLX	150.00 W	17.0 V			11.5 mm	50.0 mm	32.0 mm	3.00 mm	3.0*6.0 mm <sup>2</sup>
64642 HLX	150.00 W	24.0 V	3450 K	5000 lm	11.5 mm	50.0 mm	31.7 mm <sup>2)</sup>	6.00 mm	6.0*3.2 mm <sup>2</sup>
64643 150 W 24 V	150.00 W	24.0 V	3450 K	5000 lm	15.0 mm	57.0 mm	33.5 mm	6.00 mm	6.0*3.0 mm <sup>2</sup>
64652 HLX	250.00 W	24.0 V	3400 K	8200 lm	11.5 mm	46.0 mm	31.8 mm	2.60 mm	2.7*5.0 mm <sup>2</sup>
64655 HLX	250.00 W	24.0 V	3550 K	10000 lm	12.5 mm	55.0 mm	33.0 mm	7.00 mm	7.0*3.5 mm <sup>2</sup>
64657 HLX	250.00 W	24.0 V		9000 lm	13.5 mm	55.0 mm	33.0 mm	8.00 mm	8.0*4.0 mm <sup>2</sup>
64656 HLX	275.00 W	24.0 V	3550 K	10000 lm	13.5 mm	55.0 mm	33.0 mm	7.00 mm	7.0*3.5 mm <sup>2</sup>
64654 HLX <sup>1)</sup>	250.00 W	24.0 V	3450 K	9000 lm	13.5 mm	68.0 mm	35.0 mm	8.00 mm	8.0*4.0 mm <sup>2</sup>
64663 HLX	400.00 W	36.0 V	3250 K	16200 lm	15.0 mm	60.0 mm	36.0 mm	9.30 mm	9.3*4.9 mm <sup>2</sup>
64664 HLX	400.00 W	36.0 V	3500 K		18.0 mm	57.0 mm	36.0 mm	10.00 mm	10.0*5.0 mm <sup>2 5)</sup>
64665 HLX	400.00 W	36.0 V	3300 K	12800 lm	18.0 mm	60.0 mm	36.0 mm	10.50 mm	10.5*5.3 mm <sup>2</sup>
64633 HLX	150.00 W	15.0 V	3450 K	5600 lm	11.5 mm	44.0 mm	30.0 mm	3.00 mm	3.0*4.8 mm <sup>2</sup>
62139 HLX	150.00 W	12.8 V			13.0 mm	50.0 mm	32.0 mm	6.00 mm	6.0*3.2 mm <sup>2</sup>

Product description	Filament diameter	Lifespan	Capabilities	Certificates & standards	Country specific categorizations		
		Lifespan	Burning position	EEL – Energy Label	Order reference	ANSI code	LIF
64222 10 W 6 V	0.8 mm	300 h	Any	B	64222 10W 6V PG		
64225 10 W 6 V	0.7 mm	100 h	s90	B	64225 M/29 10W	ESA/FHS	M/29
64250 HLX	0.8 mm	100 h	Any	B	64250 HLX 20W 6	ESB	M/30
64251 HLX	0.5 mm	100 h	Any	B	64251 HLX 20W 6		

## Product family datasheet

Product description	Filament diameter	Lifespan	Capabilities	Certificates & standards	Country specific categorizations		
		Lifespan	Burning position	EEI – Energy Label	Order reference	ANSI code	LIF
64265 HLX	1.6 mm	100 h	Any	B	64265 HLX 30W 6		
64275 AX	1.6 mm	50 h	Any	C	64275 AX 35W 6V		M/137
64258 20 W 12 V	0.8 mm	2000 h	s90	C	64258 20W 12V G		
64260 30 W 12 V	1.3 mm	50 h	Any	B	64260 30W 12V P		M/185
64261 HLX	1.3 mm	50 h	Any	B	64261 30W 12V G		M/130
64602 50 W 12 V	3.0 mm	1100 h	s90	C	64602 50W 12V G		M/134
64610 HLX	1.6 mm	50 h	s90	B	64610 HLX 50W 1	BRL	A1/220
64611 HLX	1.6 mm	100 h	s90	B	64611 HLX 50W 1		
75 W 12 V			p90/p15		62137 75W 12V G		
62138 HLX	1.8 mm	50 h	p90/p15	B	62138 HLX 100W		
64621 HLX	2.7 mm	2000 h	s90	B	64621 HLX 100W		
64623 HLX	2.7 mm	2000 h	s90	B	64623 HLX 100W	EVA	M/28
64625 HLX	2.3 mm	50 h	s90	B	64625 HLX100W12	FCR	A1/215
64628 100 W 12 V	2.3 mm	50 h	s90	B	64628 100W 12V	FDT	A1/261
64626 HLX <sup>1)</sup>	2.3 mm	50 h	s90	B	64626 HLX 100W	EHE	A1/45
64291 XIR	1.4 mm	800 h	h90	B	64291 XIR 40W 2		
64650 50 W 22,8 V	5.0 mm	1200 h	Any	C	64650 50W 22,8V		
64668 XIR	5.5 mm	400 h	h90	B	64668 XIR 80W 2		
64292 XIR	6.7 mm	600 h	s90	B	64292 XIR 150W		
64638 HLX	2.6 mm	300 h	Any	B	64638 HLX 100W		
64647 120 W 24 V	6.4 mm	700 h	Any	B			
64640 HLX	2.9 mm	50 h	s90	B	64640 HLX 150W	FCS	A1/216
64641 HLX	6.0 mm	2000 h	s135	D	64641 HLX 150W		
64642 HLX	3.2 mm	300 h	s90	B	64642 HLX 150W	FDV	M/184

## Product family datasheet

Product description	Filament diameter	Lifespan	Capabilities	Certificates & standards	Country specific categorizations		
		Lifespan	Burning position	EEI – Energy Label	Order reference	ANSI code	LIF
64643 150 W 24 V	3.0 mm	100 h	s90	B	64643 150W 24V	FDS	A1/262
64652 HLX	5.0 mm	50 h	p90/p15	B	64652 HLX 250W		
64655 HLX	3.5 mm	50 h	s90	B	64655 HLX 250W	EHJ	A1/223
64657 HLX	4.0 mm	300 h	s90	B	64657 HLX 250W	EVC	M/33
64656 HLX	3.5 mm	75 h	s90	B	64656 HLX 275W	FNT	
64654 HLX <sup>1)</sup>	4.0 mm	300 h	s90	B	64654 HLX 250W		
64663 HLX	4.9 mm	50 h	s90	B	64663 HLX 400W	EVD	A1/239
64664 HLX	5.0 mm	150 h	s105	B	64664 HLX 400W		A1/270
64665 HLX	5.3 mm	300 h	s90	B	64665 HLX 400W		A1/166
64633 HLX	4.8 mm	50 h	s90	B	64633 HLX 150W1	BRJ	A1/234
62139 HLX	3.2 mm	300 h	h90	B	62139 HLX 150W		

<sup>1)</sup> Available on request

<sup>2)</sup> ±0.3 mm

<sup>3)</sup> Restricted tolerances 3.5±0.25\*0.8±0.10

<sup>4)</sup> ±0.5 mm

<sup>5)</sup> Round-core double coil

## Product family datasheet

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### Application advice

For more detailed application information and graphics please see product datasheet.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.