

## Low-voltage halogen lamps without reflector



### Areas of application

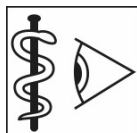
- Lamps for special luminaires
- Medical fiber optics (HLX)

### Product benefits

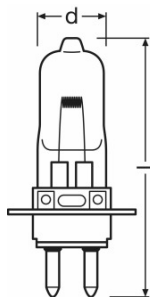
- Compared to standard lamps up to 10 % higher luminous efficacy (HLX)
- Instant light (HLX)
- Increased energy efficiency due to additional infrared coating on glass bulb (XIR)
- Compared to standard lamps up to 30 % higher luminous efficacy (XIR)

### Product features

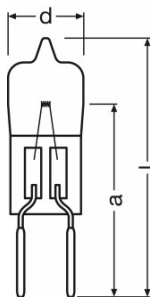
- Xenon instead of krypton as the filler gas (XENOPHOT HLX versions)
- Luminous flux up to 10 % higher with same power consumption (XENOPHOT HLX versions)
- HLX tungsten halogen low-voltage lamp with or without reflector
- Dimmable (HLX)
- XIR tungsten halogen capsule with xenon gas filling



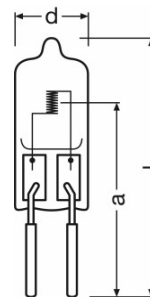
# Product family datasheet



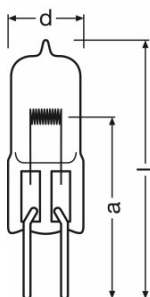
Product line drawing



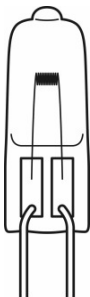
Product line drawing



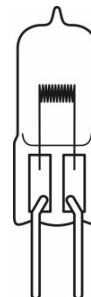
Product line drawing



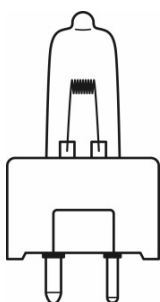
Product line drawing



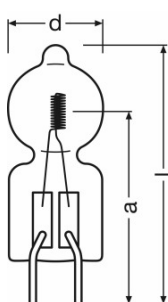
Prod.line drw, front, no dimensions



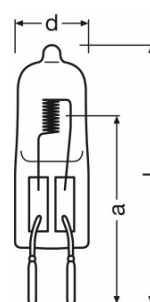
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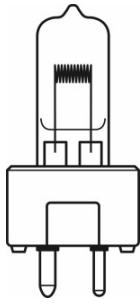


Product line drawing



Product line drawing

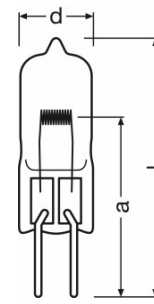
# Product family datasheet



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	Luminous flux	Diameter	Length	Light center length (LCL)	Filament length	Illuminated field
64222 10 W 6 V	10.0 W	6 V	3050 K	150 lm	150 lm	9 mm	44.0 mm	14.0 mm	1.30 mm	1.3*0.8 mm <sup>2</sup>
64223 10 W 6 V	10.0 W	6 V	2900 K	150 lm	150 lm	9 mm	38.0 mm	24.0 mm	1.50 mm	1.5*0.7 mm <sup>2</sup>
64225 10 W 6 V	10.0 W	6 V	3200 K	200 lm	200 lm	9.5 mm	31.0 mm	19.5 mm	1.70 mm	1.7*0.65 mm <sup>2</sup>
64250 HLX	20.0 W	6 V	3350 K	460 lm	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	20.0 W	6 V	3350 K	460 lm	460 lm	9 mm	40.0 mm	14.0 mm	2.30 mm	2.3*0.8 mm <sup>2</sup>
64265 HLX	30.0 W	6 V	3200 K	765 lm	765 lm	9 mm	31.0 mm	19.5 mm	1.60 mm	1.6*1.6 mm <sup>2</sup>
64275 AX	35.0 W	6 V	3350 K	755 lm	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	20.0 W	12.0 V	3050 K	335 lm	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>
64259 20 W 12 V	20.0 W	12.0 V			400 lm	9.5 mm	30.0 mm	19.5 mm <sup>2)</sup>	1.90 mm	1.9*2.0 mm <sup>2</sup>
64260 30 W 12 V	30.0 W	12.0 V	3300 K	800 lm	800 lm	9 mm	40.0 mm	14.0 mm	2.60 mm	2.6*1.3 mm <sup>2</sup>
64261 HLX	30.0 W	12.0 V	3300 K	750 lm	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	50.0 W	12.0 V	3050 K	1000 lm	1000 lm	11.5 mm	44.0 mm	30.0 mm	3.00 mm	3.0*3.0 mm <sup>2</sup>
64610 HLX	50.0 W	12.0 V	3350 K	1600 lm	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	50.0 W	12.0 V	3250 K	1350 lm	1350 lm	11.5 mm	44.0 mm	30.0 mm	3.30 mm	3.3*1.6 mm <sup>2</sup>
62138 HLX	100 W	12.0 V	3350 K	3050 lm	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 W	12.0 V	3300 K	2880 lm	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 W	12.0 V	3300 K	2800 lm	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 W	12.0 V	3450 K	3600 lm	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 W	12.0 V	3500 K	3420 lm	3420 lm	13.0 mm	57.0 mm	27.0 mm	4.20 mm	4.2*2.3 mm <sup>2</sup>
64626 HLX	100 W	12.0 V	3450 K	3500 lm	3500 lm	11.5 mm	48.0 mm	18.0 mm	4.20 mm	4.2*2.3 mm <sup>2</sup>
64291 XIR	40.0 W	22.8 V	3150 K	1200 lm	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	50.0 W	22.8 V	3100 K	1150 lm	1150 lm	13.0 mm	44.0 mm	30.0 mm	2.00 mm	2.0*5.0 mm <sup>2</sup>
64668 XIR	80.0 W	22.8 V	3250 K	3050 lm	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 W	22.8 V	3250 K	6000 lm	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>

## Product family datasheet

Product description	Electrical data		Photometrical data			Dimensions & weight				
	Nominal wattage	Nominal voltage	Color temperature	Nominal luminous flux	Luminous flux	Diameter	Length	Light center length (LCL)	Filament length	Illuminated field
64638 HLX	100 W	24.0 V	3100 K	2970 lm	2970 lm	13.0 mm	50.0 mm	30.0 mm	5.30 mm	5.3*2.6 mm <sup>2</sup>
64647 120 W 24 V	120 W	24.0 V		3600 lm	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 W	24.0 V	3450 K	6000 lm	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 W	24.0 V			2700 lm	11.5 mm	50.0 mm	32.0 mm	3.00 mm	3.0*6.0 mm <sup>2</sup>
64642 HLX	150 W	24.0 V	3450 K	5000 lm	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 W	24.0 V	3450 K	5000 lm	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 W	24.0 V	3400 K	8200 lm	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 W	24.0 V	3550 K	10000 lm	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 W	24.0 V		9000 lm	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 W	24.0 V	3550 K	10000 lm	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 W	24.0 V	3450 K	9000 lm	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 W	36.0 V	3250 K	16200 lm	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 W	36.0 V	3500 K		14500 lm	18.0 mm	57.0 mm	36.0 mm	10.00 mm	10.0*5.0 mm <sup>2</sup> 5)
64665 HLX	400 W	36.0 V	3300 K	12800 lm	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 W	15.0 V	3450 K	5600 lm	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 W	12.8 V			4500 lm	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	EEI – Energy Label	Order reference	LIF
64222 10 W 6 V	0.8 mm	300 h	Any	B	64222 10W 6V PG	
64223 10 W 6 V	0.7 mm	300 h	Any	B	64223 M/43 10W	M/43

## Product family datasheet

Product description	Filament diameter	Lifespan	Capabilities	Certificates & standards	Country specific categorizations	
		Lifespan	Burning position	EEI – Energy Label	Order reference	LIF
64225 10 W 6 V	0.7 mm	100 h	s90	B	64225 M/29 10W	M/29
64250 HLX	0.8 mm	100 h	Any	B	64250 HLX 20W 6	M/30
64251 HLX	0.5 mm	100 h	Any	B	64251 HLX 20W 6	
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	
64259 20 W 12 V	2.0 mm	1500 h	s90	B	64259 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	A1/220
64611 HLX	1.6 mm	100 h	s90	B	64611 HLX 50W 1	
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	M/28
64625 HLX	2.3 mm	50 h	s90	B	64625 HLX100W12	A1/215
64628 100 W 12 V	2.3 mm	50 h	s90	B	64628 100W 12V	A1/261
64626 HLX	2.3 mm	50 h	s90	B	64626 HLX 100W	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	64647 120W 24V	

## Product family datasheet

Product description	Filament diameter	Lifespan	Capabilities	Certificates & standards	Country specific categorizations	
		Lifespan	Burning position	EEI – Energy Label	Order reference	LIF
64640 HLX	2.9 mm	50 h	s90	B	64640 HLX 150W	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	M/184
64643 150 W 24 V	3.0 mm	100 h	s90	B	64643 150W 24V	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	A1/223
64657 HLX	4.0 mm	300 h	s90	B	64657 HLX 250W	M/33
64656 HLX	3.5 mm	75 h	s90	B	64656 HLX 275W	
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	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	A1/234
62139 HLX	3.2 mm	300 h	h90	B	62139 HLX 150W	

Product description	ANSI code
64222 10 W 6 V	
64223 10 W 6 V	
64225 10 W 6 V	ESA/FHS
64250 HLX	ESB
64251 HLX	
64265 HLX	
64275 AX	

## Product family datasheet

Product description	ANSI code
64258 20 W 12 V	
64259 20 W 12 V	
64260 30 W 12 V	
64261 HLX	
64602 50 W 12 V	
64610 HLX	BRL
64611 HLX	
62138 HLX	
64621 HLX	
64623 HLX	EVA
64625 HLX	FCR
64628 100 W 12 V	FDT
64626 HLX	EHE
64291 XIR	
64650 50 W 22,8 V	
64668 XIR	
64292 XIR	
64638 HLX	
64647 120 W 24 V	
64640 HLX	FCS
64641 HLX	
64642 HLX	FDV
64643 150 W 24 V	FDS
64652 HLX	
64655 HLX	EHJ
64657 HLX	EVC
64656 HLX	FNT



## Product family datasheet

Product description	ANSI code
64654 HLX <sup>1)</sup>	
64663 HLX	EVD
64664 HLX	
64665 HLX	
64633 HLX	BRJ
62139 HLX	

<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.