

## Low-voltage halogen lamps without reflector



### Areas of application

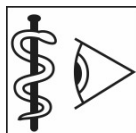
- Lamps for special luminaires
- Medical fiber optics (HLX)

### Product benefits

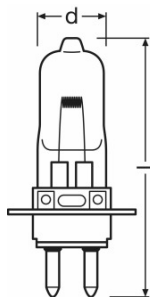
- Compared to standard lamps up to 10 % higher luminous efficacy (HLX)
- Instant light (HLX)
- Increased energy efficiency due to additional infrared coating on glass bulb (XIR)
- Compared to standard lamps up to 30 % higher luminous efficacy (XIR)

### Product features

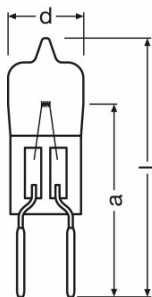
- Xenon instead of krypton as the filler gas (XENOPHOT HLX versions)
- Luminous flux up to 10 % higher with same power consumption (XENOPHOT HLX versions)
- HLX tungsten halogen low-voltage lamp with or without reflector
- Dimmable (HLX)
- XIR tungsten halogen capsule with xenon gas filling



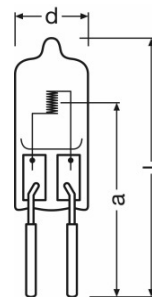
# Product family datasheet



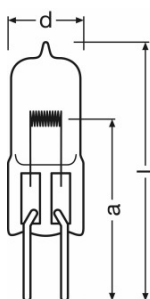
Product line drawing



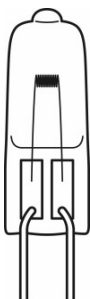
Product line drawing



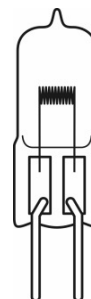
Product line drawing



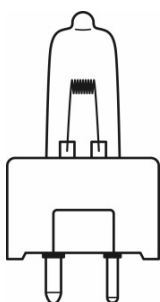
Product line drawing



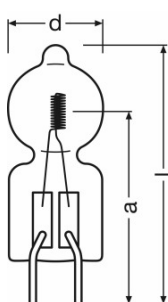
Prod.line drw, front, no dimensions



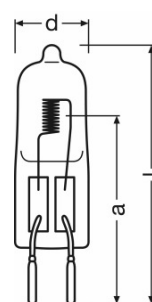
Prod.line drw, front, no dimensions



Prod.line drw, front, no dimensions

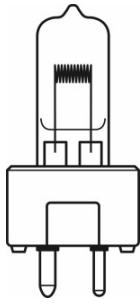


Product line drawing



Product line drawing

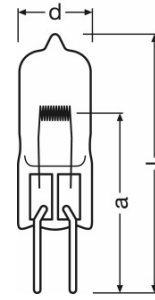
# Product family datasheet



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	Nominal luminous flux	Luminous flux	Diameter	Length	Light center length (LCL)	Filament length	Illuminated field
64222 10 W 6 V	10.00 W	6 V	150 lm	150 lm	9.0 mm	44.0 mm	14.0 mm	1.30 mm	1.3*0.8 mm <sup>2</sup>
64223 10 W 6 V	10.00 W	6 V	150 lm	150 lm	9.0 mm	38.0 mm	24.0 mm	1.50 mm	1.5*0.7 mm <sup>2</sup>
64225 10 W 6 V	10.00 W	6 V	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	20.00 W	6 V	460 lm	460 lm	9.0 mm	31.0 mm	19.5 mm	2.30 mm	2.3*0.8 mm <sup>2</sup>
64251 HLX	20.00 W	6 V	460 lm	500 lm	9.0 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	765 lm	765 lm	9.0 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	755 lm	760 lm	9.0 mm	35.0 mm	26.0 mm	1.30 mm	1.3*1.6 mm <sup>2</sup>
64258 20 W 12 V	20.00 W	12 V	335 lm	350 lm	9.5 mm	30.0 mm	19.5 mm	3.50 mm	3.5*0.8 mm <sup>2 2)</sup>
64259 20 W 12 V	20.00 W	12.0 V		400 lm	9.5 mm	34.5 mm	19.5 mm	1.90 mm	1.9*2.0 mm <sup>2</sup>
64260 30 W 12 V	30.00 W	12 V	800 lm	800 lm	9.0 mm	40.0 mm	14.0 mm	2.60 mm	2.6*1.3 mm <sup>2</sup>
64261 HLX	30.00 W	12 V	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	50.00 W	12 V	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	50.00 W	12 V	1600 lm	1600 lm	11.5 mm	44.0 mm	30.0 mm	3.30 mm	3.3*1.6 mm <sup>2</sup>
64611 HLX	50.00 W	12 V	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	100.00 W	12 V	3050 lm	2800 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 V	2880 lm	2750 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	2800 lm	2800 lm	11.5 mm	50.0 mm	30.0 mm	4.70 mm	4.7*2.7 mm <sup>2</sup>
64625 HLX	100.00 W	12 V	3600 lm	3600 lm	11.5 mm	44.0 mm	30.0 mm	4.20 mm	4.2*2.3 mm <sup>2</sup>
64628 100 W 12 V	100.00 W	12 V	3420 lm	3000 lm	13.0 mm	57.0 mm	27.0 mm	4.20 mm	4.2*2.3 mm <sup>2</sup>
64626 HLX	100.00 W	12 V	3500 lm	3600 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	1200 lm	1200 lm	12.0 mm	44.0 mm	30.0 mm	3.90 mm	3.9*1.4 mm <sup>2</sup>
64650 50 W 22,8 V	50.00 W	22.8 V	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	80.00 W	22.8 V	3050 lm	3050 lm	14.0 mm	44.0 mm	30.0 mm	2.20 mm	2.2*5.5 mm <sup>2</sup>
64292 XIR	150.00 W	22.8 V	6000 lm	6000 lm	14.0 mm	44.0 mm	30.0 mm	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	Nominal luminous flux	Luminous flux	Diameter	Length	Light center length (LCL)	Filament length	Illuminated field
64638 HLX	100.00 W	24 V	2900 lm	2900 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	120.00 W	24 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	150.00 W	24 V	6000 lm	6000 lm	11.5 mm	50.0 mm	32.0 mm	5.80 mm	5.8*2.9 mm <sup>2</sup>
64641 HLX	150.00 W	24 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	150.00 W	24 V	5000 lm	5000 lm	11.5 mm	50.0 mm	32.0 mm	6.00 mm	6.0*3.2 mm <sup>2</sup>
64643 150 W 24 V	150.00 W	24 V	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	250.00 W	24 V	8200 lm	8500 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 V	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	250.00 W	24 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	275.00 W	24 V	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>	250.00 W	24 V	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	400.00 W	36 V	16200 lm	16000 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		14500 lm	18.0 mm	57.0 mm	36.0 mm	10.00 mm	10.0*5.0 mm <sup>2</sup> <sup>3)</sup>
64665 HLX	400.00 W	36 V	12800 lm	12200 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 V	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	150.00 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	ANSI code
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 10W 6V G4	M/43	
64225 10 W 6 V	0.7 mm	100 h	s90	B	64225 M/29 10W	M/29	ESA/FHS

## Product family datasheet

Product description	Filament diameter	Lifespan	Capabilities	Certificates & standards	Country specific categorizations		
		Lifespan	Burning position	EEI – Energy Label	Order reference	LIF	ANSI code
64250 HLX	0.8 mm	100 h	Any	B	64250 HLX 20W 6	M/30	ESB
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	BRL
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	EVA
64625 HLX	2.3 mm	50 h	s90	B	64625 HLX100W12	A1/215	FCR
64628 100 W 12 V	2.3 mm	50 h	s90	B	64628 100W 12V	A1/261	FDT
64626 HLX	2.3 mm	50 h	s90	B	64626 HLX 100W	A1/45	EHE
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		
64640 HLX	2.9 mm	50 h	s90	B	64640 HLX 150W	A1/216	FCS

## Product family datasheet

Product description	Filament diameter	Lifespan	Capabilities	Certificates & standards	Country specific categorizations		
		Lifespan	Burning position	EEI – Energy Label	Order reference	LIF	ANSI code
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	FDV
64643 150 W 24 V	3.0 mm	100 h	s90	B	64643 150W 24V	A1/262	FDS
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	EHJ
64657 HLX	4.0 mm	300 h	s90	B	64657 HLX 250W	M/33	EVC
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	EVD
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	BRJ
62139 HLX	3.2 mm	300 h	h90	B	62139 HLX 150W		

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

<sup>2)</sup> Restricted tolerances 3.5±0.25\*0.8±0.10

<sup>3)</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.