

PRODUCT FAMILY DATASHEET

POWERBALL HCI-TS

Metal halide lamps with ceramic technology for enclosed luminaires



AREAS OF APPLICATION

- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Exhibition halls and trade fairs
- Factories and workshops
- Buildings, monuments, bridges
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

PRODUCT BENEFITS

- Very high efficiency
- Good to excellent color rendering
- Very good color stability
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

PRODUCT FEATURES

- POWERBALL ceramic technology
- Average lifetime: 15,000 h (operation with ECG with 70...400 Hz square-wave current)
- Average lifetime: 12,000 h (with magnetic control gear)



TECHNICAL DATA

Product description	Electrical data					Photometrical data						
	Rated wattage	Lamp current	PFC capacitor at 50 Hz	Nominal wattage	Ignition voltage	Luminous flux	Luminous efficacy	Color rendering index Ra	Color temperature	Light color	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h
HCI-TS 70 W/830 WDL PB	73.00 W	0.95 A	12 µF ¹⁾	70.00 W	3.6 / 4.5 kVp ²⁾	7000 lm	97 lm/W ³⁾	88	3000 K	831	0.84	0.82
HCI-TS 70 W/942 NDL PB	73.00 W	0.94 A	12 µF ¹⁾	70.00 W	3.6 / 5.0 kVp ²⁾	6750 lm	92 lm/W ³⁾	94	4200 K	941	0.82	0.78
HCI-TS 150 W/830 WDL PB	147.00 W	1.77 A	20 µF ¹⁾	150.00 W	3.6 / 5.0 kVp ²⁾	15000 lm	102 lm/W ³⁾	89	3000 K	830	0.87	0.80
HCI-TS 150 W/930 WDL PB	147.00 W	1.77 A		150.00 W		16000 lm	112 lm/W	92		930	0.97	0.93
HCI-TS 150 W/942 NDL PB	147.00 W	1.8 A	20 µF ¹⁾	150.00 W	3.6 / 5.0 kVp ²⁾	14800 lm	101 lm/W ³⁾	93	4200 K	940	0.85	0.75

Product description	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h	Rated LLMF at 12,000 h	UV protection	Color temperature	Dimensions & weight				Temperatures & operating conditions		Lifespan
						Diameter	Length	Light center length (LCL)	Product weight	Max. permitted outer bulb temperature	Max. permitted pinch temp.	Rated lamp survival factor at 2,000 h
HCI-TS 70 W/830 WDL PB	0.79	0.76	0.71	Yes	3100 K	20.0 mm	120.0 mm	60.0 mm	20.00 g	500 °C	330 °C	0.99
HCI-TS 70 W/942 NDL PB	0.76	0.74	0.71	Yes	4100 K	20.0 mm	120.0 mm	60.0 mm	20.00 g	500 °C	330 °C	0.99
HCI-TS 150 W/830 WDL PB	0.74	0.68	0.63	Yes	2950 K	23.0 mm	138.0 mm	69.0 mm	26.00 g	650 °C	330 °C	0.99
HCI-TS 150 W/930 WDL PB	0.87	0.85	0.80		3000 K	23.0 mm	138.0 mm		26.00 g			0.99
HCI-TS 150 W/942 NDL PB	0.70	0.67	0.65	Yes	4000 K	23.0 mm	138.0 mm	69.0 mm	26.00 g	650 °C	330 °C	0.99

Product description	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h	Rated lamp survival factor at 8,000 h	Rated lamp survival factor at 12,000 h	Lifespan B50	Operation mode LLMF/LSF	Additional product data			Capabilities	
							Base (standard designation)	System guarantee level	Mercury content	Dimmable	Burning position
HCI-TS 70 W/830 WDL PB	0.98	0.97	0.96	0.80	15000 h ⁴⁾	ECG	RX7s	3 (2/5)	5.5 mg ⁵⁾	Yes ⁶⁾	p45
HCI-TS 70 W/942 NDL PB	0.98	0.97	0.96	0.85	15000 h ⁴⁾	ECG	RX7s	3 (2/5)	8.8 mg ⁵⁾	Yes ⁶⁾	p45
HCI-TS 150 W/830 WDL PB	0.95	0.90	0.83	0.65	15000 h ⁴⁾	ECG	RX7s-24	3 (2/5)	24.2 mg ⁵⁾	Yes ⁶⁾	p45
HCI-TS 150 W/930 WDL PB	0.95	0.90	0.83	0.65		ECG	RX7s-24	3 (2/5)	16.0 mg		p4

Product description	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h	Rated lamp survival factor at 8,000 h	Rated lamp survival factor at 12,000 h	Lifespan B50	Operation mode LLMF/LSF	Additional product data			Capabilities	
							Base (standard designation)	System guarantee level	Mercury content	Dimmable	Burning position
HCI-TS 150 W/942 ND L PB	0.98	0.97	0.95	0.80	15000 h ⁴⁾	ECG	RX7s-24	3 (2/5)	18.2 mg ⁵⁾	Yes ⁶⁾	p45

Product description	Enclosed luminaire required	Certificates & standards	Energy consumption	Country-specific categorizations
				ILCOS
HCI-TS 70 W/830 WDL PB	Yes		81 kWh/1000h	MD/UB-70/830-H/SL-RX7s-22/114,2/H
HCI-TS 70 W/942 ND L PB	Yes		81 kWh/1000h	MD/UB-70/942-H/SL-RX7s-22/114,2/H
HCI-TS 150 W/830 WDL PB	Yes		162 kWh/1000h	MD/UB-150/830-H/SL-RX7s=24-25/132/H
HCI-TS 150 W/930 WDL PB	Yes		162 kWh/1000h	
HCI-TS 150 W/942 ND L PB	Yes		162 kWh/1000h	MD/UB-150/942-H/SL-RX7s=24-25/132/H

¹⁾ At rated voltage and $\cos \varphi \geq 0.9$

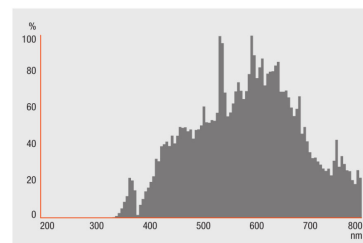
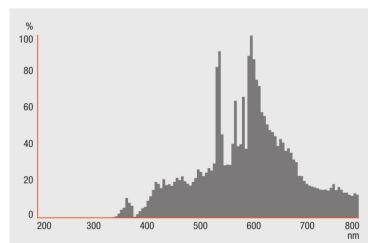
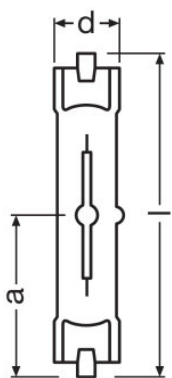
²⁾ Minimum; for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

³⁾ In operation with low frequency square wave electronic ballast, 70...400 Hz. Operation with electromagnetic ballast may be less efficient.

⁴⁾ At ECG

⁵⁾ Maximum

⁶⁾ In combination with POWERTRONIC PTo



HCI-TS 70 W/830 WDL PB, HCI-TS 70 W/942 ND PB, HCI-TS 150 W/830 WDL PB, HCI-TS 150 W/930 WDL PB, HCI-TS 150 W/942 ND PB

HCI-TS 70 W/830 WDL PB, HCI-TS 150 W/830 WDL PB

HCI-TS 70 W/942 ND PB, HCI-TS 150 W/942 ND PB

SYSTEM GUARANTEE

When operated with OSRAM POWERTRONIC control gear, an extended system guarantee is granted for these lamps

APPLICATION ADVICE

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

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321688316	Shipping carton box 12	180 mm x 161 mm x 139 mm	490.00 g	4.03 dm ³
4008321688378	Shipping carton box 12	180 mm x 161 mm x 139 mm	490.00 g	4.03 dm ³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321679864	Shipping carton box 12	180 mm x 179 mm x 139 mm	603.00 g	4.48 dm ³
4052899372344	Shipping carton box 12	180 mm x 140 mm x 175 mm	568.00 g	4.41 dm ³
4008321679888	Shipping carton box 12	180 mm x 178 mm x 142 mm	603.00 g	4.55 dm ³
4052899372368	Shipping carton box 12	180 mm x 140 mm x 175 mm	548.00 g	4.41 dm ³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

REFERENCES / LINKS

For more information on the system guarantee and the terms and conditions of the guarantee visit

▶ www.ledvance.com/system-guarantee

DISCLAIMER

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