

# PRODUCT FAMILY DATASHEET

## POWERBALL HCI-T

Metal halide lamps with ceramic technology for enclosed luminaires



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### AREAS OF APPLICATION

- Shop interiors, shop windows
- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Exhibition halls and trade fairs
- Factories and workshops
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

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### 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

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### PRODUCT FEATURES

- POWERBALL ceramic technology
- Light colors: warm white (830 WDL, 930 WDL), neutral white (942 NDL)
- Average lifetime: 15,000 h (ECG with 70...400 Hz square-wave current)
- Average lifetime 150 W version: 20,000 h (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	Nominal wattage	PFC capacitor at 50 Hz	Ignition voltage	Luminous flux	Luminous efficacy	Color temperature	Light color	UV protection	Color temperature	Color rendering index Ra
HCI-T 35 W/942 NDL PB	39.00 W	0.53 A	35.00 W	6 µF <sup>1)</sup>	3.6 / 5.0 kVp <sup>2)</sup>	3400 lm <sup>3)</sup>	87 lm/W <sup>4)</sup>	4200 K	938	Yes	3750 K	91
HCI-T 70 W/830 WDL PB	73.00 W	0.96 A	70.00 W	12 µF <sup>1)</sup>	3.6 / 5.0 kVp <sup>2)</sup>	7400 lm <sup>3)</sup>	99 lm/W <sup>4)</sup>	3000 K	830	Yes	3000 K	89
HCI-T 70 W/942 NDL PB	73.00 W	0.99 A	70.00 W	12 µF <sup>1)</sup>	3.6 / 5.0 kVp <sup>2)</sup>	6800 lm <sup>3)</sup>	93 lm/W <sup>4)</sup>	4200 K	939	Yes	3890 K	95
HCI-T 100 W/942 NDL PB	100.00 W	1.23 A	100.00 W	12 µF <sup>1)</sup>	3.6 / 5.0 kVp <sup>2)</sup>	10500 lm <sup>3)</sup>	105 lm/W <sup>4)</sup>	4200 K	940	Yes	4000 K	95
HCI-T 150 W/930 WDL PB	147.00 W	1.8 A	150.00 W	20 µF <sup>1)</sup>	3.6 / 5.0 kVp <sup>2)</sup>	17500 lm	119 lm/W <sup>4)</sup>	3000 K	930	Yes	3000 K	91
HCI-T 150 W/942 NDL PB	147.00 W	1.85 A	150.00 W	20 µF <sup>1)</sup>	3.6 / 5.0 kVp <sup>2)</sup>	16200 lm	110 lm/W <sup>4)</sup>	4200 K	942	Yes	4200 K	94

Product description	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h	Rated LLMF at 12,000 h	Light color (designation)	Dimensions & weight			Temperatures & operating conditions		
							Diameter	Length	Light center length (LCL)	Product weight	Max. permitted outer bulb temperature	Max. permitted pinch temp.
HCI-T 35 W/942 NDL PB							20.0 mm	100.0 mm	56.0 mm	27.00 g	500 °C	350 °C
HCI-T 70 W/830 WDL PB	0.85	0.79	0.74	0.70	0.63		20.0 mm	100.0 mm	56.0 mm	28.00 g	500 °C	350 °C
HCI-T 70 W/942 NDL PB	0.87	0.81	0.78	0.77	0.76		20.0 mm	100.0 mm	56.0 mm	28.00 g	500 °C	350 °C
HCI-T 100 W/942 NDL PB	0.95	0.90	0.87	0.83	0.80	Neutral White DE LUXE	20.0 mm	105.0 mm	56.0 mm	30.00 g	500 °C	350 °C
HCI-T 150 W/930 WDL PB	0.92	0.91	0.87	0.85	0.80		20.0 mm	105.0 mm	56.0 mm	29.20 g	550 °C	350 °C
HCI-T 150 W/942 NDL PB	0.92	0.90	0.87	0.85	0.80		20.0 mm	105.0 mm	56.0 mm	29.20 g	550 °C	350 °C

Product description	Lifespan							Additional product data			
	Lifespan B50	Rated lamp survival factor at 2,000 h	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	Operation mode LLMF/LSF	Base (standard designation)	Design / version	System guarantee level	Mercury content
HCI-T 35 W/942 NDL PB	15000 h <sup>5)</sup>							G12	clear	3 (2/5)	3.6 mg <sup>6)</sup>

Product description	Lifespan							Additional product data			
	Lifespan B50	Rated lamp survival factor at 2,000 h	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	Operation mode LLMF/LSF	Base (standard designation)	Design / version	System guarantee level	Mercury content
HCI-T 70 W/830 WDL PB	15000 h <sup>5)</sup>	0.99	0.98	0.97	0.96	0.80	ECG	G12	clear	3 (2/5)	7.6 mg <sup>6)</sup>
HCI-T 70 W/942 NDL PB	15000 h <sup>5)</sup>	0.99	0.98	0.97	0.96	0.80	ECG	G12	clear	3 (2/5)	5.1 mg <sup>6)</sup>
HCI-T 100 W/942 NDL PB	15000 h <sup>5)</sup>	0.99	0.98	0.97	0.96	0.80	ECG	G12	clear	3 (2/5)	10.0 mg <sup>6)</sup>
HCI-T 150 W/930 WDL PB	20000 h <sup>5)</sup>	0.99	0.98	0.97	0.96	0.90	ECG	G12	clear	3 (2/5)	14.2 mg
HCI-T 150 W/942 NDL PB	20000 h <sup>5)</sup>	0.99	0.98	0.97	0.96	0.90	ECG	G12	clear	3 (2/5)	14.0 mg

Product description	Capabilities			Country-specific categorizations
	Dimmable	Burning position	Enclosed luminaire required	ILCOS
HCI-T 35 W/942 NDL PB	No	Any	Yes	MT/UB-35/942-H/SL-G12-20/90
HCI-T 70 W/830 WDL PB	Yes <sup>7)</sup>	Any	Yes	MT/UB-70/830-H/SL-G12-20/90
HCI-T 70 W/942 NDL PB	Yes <sup>7)</sup>	Any	Yes	MT/UB-70/942-H/SL-G12-20/90
HCI-T 100 W/942 NDL PB	Yes <sup>7)</sup>	Any	Yes	MT/UB-100/942-H/SL-G12-20/100
HCI-T 150 W/930 WDL PB	Yes <sup>7)</sup>	Any	Yes	MT/UB-150/930-H/SL-G12-20/100
HCI-T 150 W/942 NDL PB	Yes <sup>7)</sup>	Any	Yes	MT/UB-150/942-H/SL-G12-20/100

<sup>1)</sup> At rated voltage and  $\cos \varphi \geq 0.9$

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

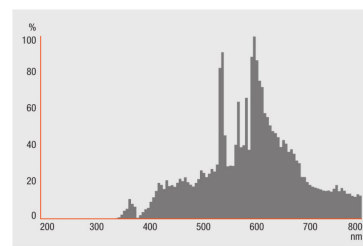
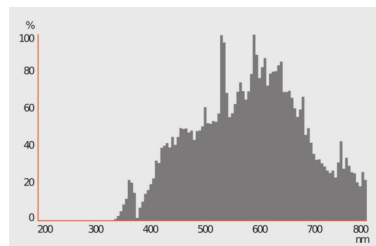
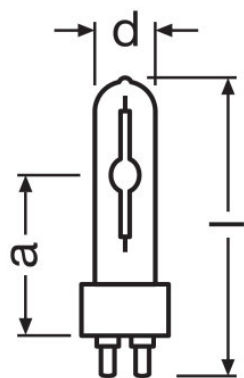
<sup>3)</sup> In operation with electronic control gear with 70...400 Hz square-wave current. Operation with magnetic ballast can be less efficient

<sup>4)</sup> In operation with low frequency square wave electronic ballast, 70...400 Hz. Operation with electromagnetic ballast may be less efficient.

<sup>5)</sup> At ECG

<sup>6)</sup> Maximum

<sup>7)</sup> In combination with POWERTRONIC PTo



HCI-T 35 W/942 NDЛ PB, HCI-T 70 W/830 WDL PB, HCI-T 70 W/942 NDЛ PB, HCI-T 100 W/942 NDЛ PB, HCI-T 150 W/930 WDL PB, HCI-T 150 W/942 NDЛ PB

HCI-T 35 W/942 NDЛ PB, HCI-T 70 W/942 NDЛ PB, HCI-T 100 W/942 NDЛ PB, HCI-T 150 W/942 NDЛ PB

HCI-T 70 W/830 WDL PB, HCI-T 150 W/930 WDL 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
4008321681904	Shipping carton box 12	180 mm x 164 mm x 136 mm	586.00 g	4.01 dm <sup>3</sup>

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321678447	Shipping carton box 12	180 mm x 161 mm x 139 mm	586.00 g	4.03 dm <sup>3</sup>
4008321678539	Shipping carton box 12	180 mm x 161 mm x 139 mm	600.40 g	4.03 dm <sup>3</sup>
4008321682994	Shipping carton box 12	180 mm x 156 mm x 139 mm	587.20 g	3.90 dm <sup>3</sup>
4052899372382	Shipping carton box 12	180 mm x 140 mm x 158 mm	612.00 g	3.98 dm <sup>3</sup>
4052899372405	Shipping carton box 12	180 mm x 140 mm x 158 mm	612.00 g	3.98 dm <sup>3</sup>

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.

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#### REFERENCES / LINKS

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

▶ [www.ledvance.com/system-guarantee](http://www.ledvance.com/system-guarantee)

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