

PRODUCT FAMILY DATASHEET

POWERBALL HCI-TC Excellence

Metal halide lamps with ceramic technology for enclosed luminaires



AREAS OF APPLICATION

- Shop interiors, shop windows
- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Accent lighting
- Decorative lighting
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

PRODUCT BENEFITS

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

PRODUCT FEATURES

- POWERBALL ceramic technology
- Light colors: warm white (930 WDL), neutral white (942 NDL)
- Color rendering index $R_a: \geq 90$
- Average lifetime: 20,000 h (operation with ECG with 70...400 Hz square-wave current)
- Average lifetime: 15,000 h (with magnetic control gear)
- HCI-TC 50 W, HCI-TC 35W/942 NDL and 70W/942 NDL only for operation with ECG with 70...400 Hz square-wave current



TECHNICAL DATA

Product description	Electrical data					Photometrical data						
	Rated wattage	Lamp current	PFC capacitor at 50 Hz	Nominal wattage	Ignition voltage	Luminous efficacy	Luminous flux	Light color	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h
HCI-TC 35 W/930 WDL PB Excellence	39.00 W	0.52 A	6 µF ²⁾	35.00 W	3.6 / 5.0 kVp ³⁾	108 lm/W	4200 lm ⁴⁾	930	0.88	0.84	0.84	0.80
HCI-TC 35 W/942 NDL PB Excellence ¹⁾	39.00 W			35.00 W	3.6 / 5.0 kVp ³⁾	103 lm/W	4000 lm	940	0.88	0.86	0.84	0.82
HCI-TC 50 W/930 WDL PB Excellence ¹⁾	50.00 W	0.56 A	- ²⁾	50.00 W	3.6 / 5.0 kVp ³⁾	108 lm/W	5400 lm	930	0.94	0.91	0.86	0.84
HCI-TC 70 W/930 WDL PB Excellence	73.00 W	0.99 A	12 µF ²⁾	70.00 W	3.6 / 5.0 kVp ³⁾	113 lm/W	8300 lm ⁴⁾	930	0.92	0.91	0.87	0.85
HCI-TC 70 W/942 NDL PB Excellence ¹⁾	73.00 W	0.87 A		70.00 W	3.6 / 5.0 kVp ³⁾	105 lm/W	7700 lm	940	0.91	0.88	0.85	0.82

Product description	Rated LLMF at 12,000 h	UV protection	Color temperature	Color rendering index Ra	Dimensions & weight			Lifespan				
					Diameter	Length	Product weight	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
HCI-TC 35 W/930 WDL PB Excellence	0.80	Yes	3000 K	90	15.0 mm	81.0 mm	9.00 g	1.00	0.99	0.98	0.97	0.95
HCI-TC 35 W/942 NDL PB Excellence ¹⁾	0.80	Yes	3950 K	92	15.0 mm	81.0 mm	9.00 g	0.99	0.98	0.97	0.96	0.80
HCI-TC 50 W/930 WDL PB Excellence ¹⁾	0.80	Yes	2950 K	90	15.0 mm	81.0 mm	9.00 g	0.99	0.99	0.98	0.97	0.95
HCI-TC 70 W/930 WDL PB Excellence	0.80	Yes	3000 K	90	15.0 mm	81.0 mm	9.00 g	0.99	0.99	0.98	0.97	0.95
HCI-TC 70 W/942 NDL PB Excellence ¹⁾	0.80	Yes	4000 K	93	15.0 mm	81.0 mm	9.00 g	0.99	0.99	0.98	0.97	0.92

Product description	Rated lamp survival factor at 16,000 h	Rated lamp survival factor at 20,000 h	Lifespan B50	Operation mode LLMF/LSF	Additional product data			Capabilities		
					Base (standard designation)	System guarantee level	Mercury content	Dimmable	Burning position	Enclosed luminaire required
HCI-TC 35 W/930 WDL PB Excellence	0.80	0.50	20000 h ⁵⁾	ECG	G8.5	3 (2/5)	4.3 mg	No	Any	Yes
HCI-TC 35 W/942 NDL PB Excellence ¹⁾	0.50	0.20	16000 h		G8.5	3 (2/5)	3.6 mg	No	Any	Yes

Product description	Rated lamp survival factor at 16,000 h	Rated lamp survival factor at 20,000 h	Lifespan B50	Operation mode LLMF/LSF	Additional product data			Capabilities		
					Base (standard designation)	System guarantee level	Mercury content	Dimmable	Burning position	Enclosed luminaire required
HCI-TC 50 W/930 WDL PB Excellence ¹⁾	0.80	0.50	20000 h ⁵⁾	ECG	G8.5	3 (2/5)	6.0 mg	Yes	Any	Yes
HCI-TC 70 W/930 WDL PB Excellence	0.80	0.50	20000 h ⁵⁾	ECG	G8.5	3 (2/5)	7.6 mg	Yes	Any	Yes
HCI-TC 70 W/942 NDL PB Excellence ¹⁾	0.80	0.50	20000 h	ECG	G8.5	3 (2/5)	5.1 mg	Yes ⁶⁾	Any	Yes

Product description	Certificates & standards	Country-specific categorizations
	Energy consumption	ILCOS
HCI-TC 35 W/930 WDL PB Excellence	43 kWh/1000h	MT/UB-35/930-H/E/SL-G8.5-17/85
HCI-TC 35 W/942 NDL PB Excellence ¹⁾	43 kWh/1000h	MT/UB-35/942-H/E/L-G8.5-17/85
HCI-TC 50 W/930 WDL PB Excellence ¹⁾	55 kWh/1000h	MT/UB-50/930-H/L-G8.5-17/85
HCI-TC 70 W/930 WDL PB Excellence	81 kWh/1000h	MT/UB-70/930-H/E/SL-G8.5-17/85
HCI-TC 70 W/942 NDL PB Excellence ¹⁾	81 kWh/1000h	MT/UB-70/942-H/E/L-G8.5-17/85

¹⁾ Only for operation with electronic control gear with 70...400 Hz square-wave current

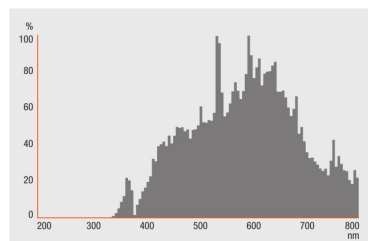
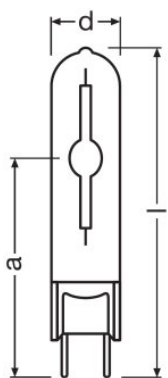
²⁾ At rated voltage and $\cos \varphi \geq 0.9$

³⁾ Minimum; for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

⁴⁾ In operation with electronic control gear with 70...400 Hz square-wave current. Operation with magnetic ballast can be less efficient

⁵⁾ At ECG

⁶⁾ In combination with POWERTRONIC PTo



HCI-TC 35 W/930 WDL PB Excellence,
 HCI-TC 35 W/942 NDL PB Excellence,
 HCI-TC 50 W/930 WDL PB Excellence,
 HCI-TC 70 W/930 WDL PB Excellence,
 HCI-TC 70 W/942 NDL PB Excellence

HCI-TC 35 W/942 NDL PB Excellence,
 HCI-TC 70 W/942 NDL PB Excellence

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
4052899238671	Shipping carton box 12	180 mm x 140 mm x 127 mm	342.00 g	3.20 dm ³
4052899265202	Shipping carton box 12	180 mm x 140 mm x 127 mm	342.00 g	3.20 dm ³
4052899238794	Shipping carton box 12	180 mm x 140 mm x 127 mm	319.00 g	3.20 dm ³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899238756	Shipping carton box 12	180 mm x 140 mm x 127 mm	328.00 g	3.20 dm ³
4052899265110	Shipping carton box 12	180 mm x 140 mm x 127 mm	329.00 g	3.20 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.

DISCLAIMER

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