

# PRODUCT FAMILY DATASHEET

## POWERBALL HCI-E/P

Metal halide lamps for open and 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
- Streets
- Pedestrian zones, public squares
- Parks and gardens
- Suitable for use in open and enclosed luminaires
- Outdoor applications only in suitable luminaires

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### PRODUCT BENEFITS

- Very high efficiency
- Simple lamp installation/replacement in open luminaires
- Good 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 color: warm white (830 WDL)



TECHNICAL DATA

Product description	Electrical data					Photometrical data					
	Rated wattage	Lamp current	PFC capacitor at 50 Hz	Nominal wattage	Ignition voltage	Rated lamp efficacy (standard condition)	Rated luminous flux	Color temperature	Light color	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h
HCI-E/P 35 W/830 WDL PB coated	38.00 W	0.53 A	6 µF <sup>1)</sup>	35.00 W	3.6 / 5.0 kVp <sup>2)</sup>	100 lm/W	3800 lm	3050 K	831	0.92	0.90
HCI-E/P 50 W/830 WDL PB coated	53.00 W	0.7 A	10 µF <sup>1)</sup>	50.00 W	3.6 / 5.0 kVp <sup>2)</sup>	102 lm/W	5400 lm	3000 K	830	0.92	0.90
HCI-E/P 70 W/830 WDL PB coated	73.00 W	0.98 A	12 µF <sup>1)</sup>	70.00 W	3.6 / 5.0 kVp <sup>2)</sup>	103 lm/W	7500 lm	2900 K	829	0.92	0.90
HCI-E/P 100 W/830 WDL PB coated	97.00 W	1.76 A	12 µF <sup>1)</sup>	100.00 W	3.6 / 5.0 kVp <sup>2)</sup>	103 lm/W	10000 lm	3000 K	930	0.92	0.90
HCI-E/P 150 W/830 WDL PB coated	145.00 W	1.77 A	20 µF <sup>1)</sup>	150.00 W	5.0 / 3.6 kVp <sup>2)</sup>	103 lm/W	15000 lm	3000 K	830	0.92	0.90

Product description								Dimensions & weight			Temperatures & operating conditions	
	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h	Rated LLMF at 12,000 h	UV protection	Light color (designation)	Luminous flux	Color rendering index Ra	Diameter	Length	Product weight	Max. permitted outer bulb temperature	Max. permitted edge temperature
HCI-E/P 35 W/830 WDL PB coated	0.87	0.85	0.81	Yes	Warm White DE LUXE	3800 lm	89	54.0 mm	138.0 mm	72.00 g	330 °C	190 °C
HCI-E/P 50 W/830 WDL PB coated	0.87	0.85	0.81	Yes		4000 lm	89	54.0 mm	138.0 mm	73.00 g	330 °C	190 °C
HCI-E/P 70 W/830 WDL PB coated	0.87	0.85	0.81	Yes	Warm White DE LUXE	7500 lm	89	54.0 mm	138.0 mm	74.00 g	330 °C	190 °C
HCI-E/P 100 W/830 WDL PB coated	0.87	0.85	0.81	Yes	Warm White DE LUXE	10000 lm	92	54.0 mm	138.0 mm	78.00 g	330 °C	190 °C
HCI-E/P 150 W/830 WDL PB coated	0.87	0.85	0.81	Yes		15000 lm	89	54.0 mm	138.0 mm	78.00 g	330 °C	190 °C

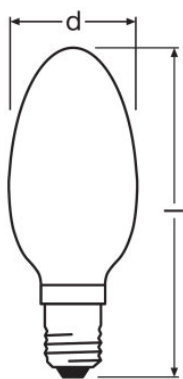
Product description	Lifespan							Additional product data			
	Rated lamp survival factor at 2,000 h	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h	Rated lamp survival factor at 8,000 h	Rated lamp survival factor at 12,000 h	Lifespan B50	Operation mode LLMF/LSF	Base (standard designation)	Design / version	System guarantee level	Mercury content
HCI-E/P 35 W/830 WDL PB coated	0.99	0.97	0.92	0.87	0.81	16000 h	50 Hz	E27	Coated	3 (1/5)	4.3 mg
HCI-E/P 50 W/830 WDL PB coated	0.99	0.97	0.92	0.87	0.81	16000 h	50 Hz	E27	Frosted	3 (1/5)	6.3 mg

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HCI-E/P 70 W/830 WDL PB coated	0.99	0.97	0.92	0.87	0.81	16000 h	50 Hz	E27	Coated	3 (1/5)	7.6 mg
HCI-E/P 100 W/830 WDL PB coated	0.99	0.97	0.92	0.87	0.81	16000 h	50 Hz	E27	Coated	3 (1/5)	10.7 mg
HCI-E/P 150 W/830 WDL PB coated	0.99	0.97	0.92	0.87	0.81	16000 h	50 Hz	E27	Frosted	3 (1/5)	15.6 mg

Product description	Capabilities			Certificates & standards	Country-specific categorizations
	Dimmable	Burning position	Enclosed luminaire required	Energy consumption	ILCOS
HCI-E/P 35 W/830 WDL PB coated	No	Any	No	42 kWh/1000h	MES/UB-35/830-H/SL-E27-57/144
HCI-E/P 50 W/830 WDL PB coated	Yes	Any	No	59 kWh/1000h	MES/UB-50/830-H/SL-E27-57/144
HCI-E/P 70 W/830 WDL PB coated	Yes	Any	No	81 kWh/1000h	MES/UB-70/830-H/SL-E27-57/144
HCI-E/P 100 W/830 WDL PB coated	Yes	Any	No	107 kWh/1000h	MES/UB-100/830-H/SL-E27-57/144
HCI-E/P 150 W/830 WDL PB coated	Yes	Any	No	158 kWh/1000h	MES/UB-150/830-H/SL-E27-57/144

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

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



HCI-E/P 50 W/830 WDL PB coated, HCI-E/P 150 W/830 WDL PB coated

### 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
4052899439610	Shipping carton box 12	370 mm x 295 mm x 195 mm	2010.00 g	21.28 dm <sup>3</sup>
4052899439597	Shipping carton box 12	370 mm x 295 mm x 195 mm	2022.00 g	21.28 dm <sup>3</sup>
4052899439634	Shipping carton box 12	370 mm x 295 mm x 195 mm	2034.00 g	21.28 dm <sup>3</sup>

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075807716	Shipping carton box 12	370 mm x 295 mm x 195 mm	2082.00 g	21.28 dm <sup>3</sup>
4052899439658	Shipping carton box 12	370 mm x 295 mm x 195 mm	2082.00 g	21.28 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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### DISCLAIMER

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