

# POWERBALL® HCI®-PAR30

Technical Information

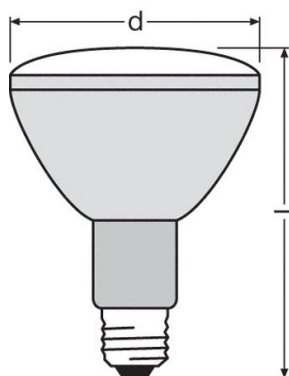


POWERBALL® HCI®-PAR30

## General product description

- High intensity discharge lamps
- Metal halide lamps with ceramic burner
- POWERBALL<sup>1</sup> technology
- UV-filter technology
- Integrated PAR30 reflector
- For open and enclosed luminaires

## Basic technical description



Product reference	Nominal lamp wattage	Cap	Correlated colour temperature	Light colour code	Length max. (l)	Diameter max. (d)	Weight per piece	Beam angle	Typical lamp voltage <sup>2</sup>	Typical lamp current <sup>2</sup>
	[W]		[K]		[mm]	[mm]	[g]	[°]	[V]	[A]
HCI-PAR30 35W/830 WDL PB SP 10D	35	E27	3000	830	125	97	220	10	90	0.53
HCI-PAR30 35W/830 WDL PB FL 30D	35	E27	3000	830	125	97	220	30	90	0.53
HCI-PAR30 35W/942 NDL PB SP 10D	35	E27	4200	942	125	97	220	10	90	0.53
HCI-PAR30 35W/942 NDL PB FL 30D	35	E27	4200	942	125	97	220	30	90	0.53
HCI-PAR30 70W/930 WDL PB SP 10D	70	E27	3000	930	125	97	220	10	90	0.98
HCI-PAR30 70W/930 WDL PB FL 30D	70	E27	3000	930	125	97	220	30	90	0.98
HCI-PAR30 70W/942 NDL PB SP 10D	70	E27	4200	942	125	97	220	10	90	0.98
HCI-PAR30 70W/942 NDL PB FL 30D	70	E27	4200	942	125	97	220	30	90	0.98

<sup>1</sup> Round ceramic burner for optimized efficacy

<sup>2</sup> Refers to operation with a reference electromagnetic ballast (IEC 60923).

## Performance specification<sup>3</sup>

Product reference	Rated lamp wattage	Rated system wattage <sup>4</sup>	Luminous intensity	Useful luminous flux <sup>5</sup>	Colour rendering index Ra	Colour rendering level	Average life (B50) <sup>6</sup>
	[W]	[W]	[cd]	[lm]			[h]
HCI-PAR30 35W/830 WDL PB SP 10D	39	43	45000	2090	83	1B	12000
HCI-PAR30 35W/830 WDL PB FL 30D	39	43	8000	2190	83	1B	12000
HCI-PAR30 35W/942 NDL PB SP 10D	39	43	36000	2110	>90	1A	12000
HCI-PAR30 35W/942 NDL PB FL 30D	39	43	7000	2050	>90	1A	12000
HCI-PAR30 70W/930 WDL PB SP 10D	72	80	60000	3630	95	1A	12000
HCI-PAR30 70W/930 WDL PB FL 30D	72	80	12000	3400	95	1A	12000
HCI-PAR30 70W/942 NDL PB SP 10D	72	80	70000	3770	>90	1A	12000
HCI-PAR30 70W/942 NDL PB FL 30D	72	80	13000	3530	>90	1A	12000

## Operation conditions

- Burning position: any

Product reference	Max. permitted reflector edge temperature	Max. permitted base edge temperature	Ignition voltage min. / max.	Required control gear <sup>7</sup>	Suitable OSRAM electronic control gear	Dimming
	[°C]	[°C]	[kV <sub>p</sub> ]			
HCI-PAR30 35W/830 WDL PB SP 10D	160	210	3.6 <sup>8</sup> / 5.0 <sup>9</sup>	ECG, CCG	PTi, PT-FIT, PTo	not allowed
HCI-PAR30 35W/830 WDL PB FL 30D	160	210	3.6 <sup>8</sup> / 5.0 <sup>9</sup>	ECG, CCG	PTi, PT-FIT, PTo	not allowed
HCI-PAR30 35W/942 NDL PB SP 10D	160	210	3.6 <sup>8</sup> / 5.0 <sup>9</sup>	ECG, CCG	PTi, PT-FIT, PTo	not allowed
HCI-PAR30 35W/942 NDL PB FL 30D	160	210	3.6 <sup>8</sup> / 5.0 <sup>9</sup>	ECG, CCG	PTi, PT-FIT, PTo	not allowed
HCI-PAR30 70W/930 WDL PB SP 10D	160	210	3.6 <sup>8</sup> / 5.0 <sup>9</sup>	ECG, CCG	PTi, PT-FIT, PTo	with PTo <sup>10</sup>
HCI-PAR30 70W/930 WDL PB FL 30D	160	210	3.6 <sup>8</sup> / 5.0 <sup>9</sup>	ECG, CCG	PTi, PT-FIT, PTo	with PTo <sup>10</sup>
HCI-PAR30 70W/942 NDL PB SP 10D	160	210	3.6 <sup>8</sup> / 5.0 <sup>9</sup>	ECG, CCG	PTi, PT-FIT, PTo	with PTo <sup>10</sup>
HCI-PAR30 70W/942 NDL PB FL 30D	160	210	3.6 <sup>8</sup> / 5.0 <sup>9</sup>	ECG, CCG	PTi, PT-FIT, PTo	with PTo <sup>10</sup>

<sup>3</sup> The specified values refer to operation with a reference electromagnetic ballast (IEC 60923) at rated wattage, unless otherwise stated. They refer to base-up burning position, in line with IEC 61167. Other burning positions may result in differing values.

<sup>4</sup> With OSRAM POWERTRONIC PTi, PT-FIT or PTo

<sup>5</sup> The part of the luminous falling within a 90° cone around the lamp reflector axis

<sup>6</sup> For all burning positions; in operation with electromagnetic control gear or with electronic control gear

<sup>7</sup> ECG stands for low frequency square wave electronic ballast. See the respective lamp data sheet in IEC 61167 and Annexes G and H, therein. CCG stands for electromagnetic ballast (see IEC 61347).

<sup>8</sup> For superimposed ignition with square wave electronic ballast 3.0 kV<sub>p</sub> are sufficient.

<sup>9</sup> This limit is for safety reasons.

<sup>10</sup> Depending on the dimming level both correlated colour temperature and colour rendering index Ra may substantially change; average life may not increase.

## Safety, materials and environment

- Compliant with safety specifications according to EN 62035
- Compliant with RoHS.
- For operation with an electromagnetic ballast<sup>11</sup> a protection against rectifying effect at end-of-life required
- Staring at operating light source to be avoided because of high brightness

Product description	Typical specific effective radiant UV power [mW/m <sup>2</sup> /klx]	Typical mercury content [mg]
HCI-PAR30 35W/830 WDL PB SP 10D	< 2	4.1
HCI-PAR30 35W/830 WDL PB FL 30D	< 2	4.1
HCI-PAR30 35W/942 NDL PB SP 10D	< 2	4.6
HCI-PAR30 35W/942 NDL PB FL 30D	< 2	4.6
HCI-PAR30 70W/930 WDL PB SP 10D	< 2	7.2
HCI-PAR30 70W/930 WDL PB FL 30D	< 2	7.2
HCI-PAR30 70W/942 NDL PB SP 10D	< 2	7.9
HCI-PAR30 70W/942 NDL PB FL 30D	< 2	7.9

## Energy labelling<sup>12</sup>

Product description	Energy efficiency class	Weighted energy consumption E <sub>c</sub> [kWh/1000h]
HCI-PAR30 35W/830 WDL PB SP 10D	A	43
HCI-PAR30 35W/830 WDL PB FL 30D	A	43
HCI-PAR30 35W/942 NDL PB SP 10D	A	43
HCI-PAR30 35W/942 NDL PB FL 30D	A	43
HCI-PAR30 70W/930 WDL PB SP 10D	A	80
HCI-PAR30 70W/930 WDL PB FL 30D	A	80
HCI-PAR30 70W/942 NDL PB SP 10D	A	80
HCI-PAR30 70W/942 NDL PB FL 30D	A	80

<sup>11</sup> See IEC 61347.

<sup>12</sup> According to Regulation (EU) No 874/2012 of July 12, 2012

Edition December 2, 2013; replaces edition September 9, 2013. Subject to change without notice. Errors and omissions excepted. Make sure to use the most recent edition.

## Logistics data

Product description	ILCOS	EAN 10	EAN 40	Standard pack quantity
HCI-PAR30 35W/830 WDL PB SP 10D	MRS/UB-35/830-H/E/SL-E27-95/125/10	4008321970831	4008321970848	6
HCI-PAR30 35W/830 WDL PB FL 30D	MRS/UB-35/830-H/E/SL-E27-95/125/30	4008321970855	4008321970862	6
HCI-PAR30 35W/942 NDL PB SP 10D	MRS/UB-35/942-H/E/SL-E27-95/125/10	4008321970879	4008321970886	6
HCI-PAR30 35W/942 NDL PB FL 30D	MRS/UB-35/942-H/E/SL-E27-95/125/30	4008321970893	4008321970909	6
HCI-PAR30 70W/930 WDL PB SP 10D	MRS/UB-70/930-H/E/SL-E27-95/125/10	4008321970930	4008321970947	6
HCI-PAR30 70W/930 WDL PB FL 30D	MRS/UB-70/930-H/E/SL-E27-95/125/30	4008321971012	4008321971029	6
HCI-PAR30 70W/942 NDL PB SP 10D	MRS/UB-70/942-H/E/SL-E27-95/125/10	4008321970954	4008321970961	6
HCI-PAR30 70W/942 NDL PB FL 30D	MRS/UB-70/942-H/E/SL-E27-95/125/30	4008321970978	4008321970985	6

## References

Reference	Location
Brochure "Metal halide lamps. Instructions for the use and application"	<a href="http://www.osram.com">www.osram.com</a>
Brochure "High Intensity Discharge lamps. Technical information on reducing the wattage"	<a href="http://www.osram.com">www.osram.com</a>
Luminous intensity distribution	available on request
System <sup>+</sup> guarantee	level 3C, see <a href="http://www.osram.com">www.osram.com</a>