



# A green, flexible choice

## PL-S Short 2-Pin Base

Philips Linear Compact Fluorescent Lamps offer designers, specifiers and end-users new levels of efficiencies and versatility in sizes, configurations and application possibilities. With so many elegant fixtures available to complement their small size, high light output and advanced technology, Philips Energy Advantage lamps are fast becoming the preferred choice when maximum efficiency and sleek design solutions are required.

### Benefits

- Integral starter cuts installation wiring costs and permits use of small choke ballasts
- Better for the environment with ALTO lamp technology
- Available in variable color temperatures

### Features

- High Lamp Efficacy
- 10,000 Hour Rated Average Life\*
- Designed for Use with Magnetic Ballasts
- Integral Starter in Base
- ALTO® Lamp Technology
- Available in 5,7,9, and 13 watts with 2700,3000,3500, 4100 and 5000 color temperatures
- \*Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.

### Application

- They are ideal for recessed and surface mounted downlights, task lighting, corridor, security and general lighting

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### Warnings and Safety

• Lamp contains mercury. Manage in Accord with Disposal Laws. See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-800-555-0050

### Versions



5W, G23, 2P



7W, G23, 2P

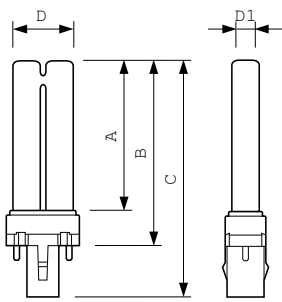


9W, G23, 2P



13W, GX23, 2P

### Dimensional drawing



Product	D (max)	D1 (max)	A (max)	B (max)	C (max)
PL-S 5W/827/2P/ALTO	28 mm	13 mm	67 mm	83 mm	105 mm
PL-S 7W/827/2P/ALTO	28 mm	13 mm	97 mm	113 mm	135 mm
PL-S 7W/841/2P/ALTO	28 mm	13 mm	97 mm	113 mm	135 mm
PL-S 9W/827/2P/ALTO	28 mm	13 mm	129 mm	145 mm	167 mm
PL-S 9W/841/2P/ALTO	28 mm	13 mm	129 mm	145 mm	167 mm
PL-S 13W/827/2P/ALTO	28 mm	13 mm	139.5 mm	155.2 mm	177.7 mm
PL-S 13W/835/2P/ALTO	28 mm	13 mm	139.5 mm	155.2 mm	177.7 mm
PL-S 13W/841/2P/ALTO	28 mm	13 mm	139.5 mm	155.2 mm	177.7 mm
PL-S 13W/850/2P/ALTO	28 mm	13 mm	139.5 mm	155.2 mm	177.7 mm

### Approval and Application

Mercury (Hg) Content (Nom) 1.4 mg

### Controls and Dimming

Dimmable No

### General Information

Life To 50% Failures (Nom) 10000 h

LSF 2000 h Rated 99 %

LSF 4000 h Rated 98 %

LSF 6000 h Rated 95 %

LSF 8000 h Rated 86 %

### Light Technical

Color Rendering Index (Nom) 82

### Temperature

Design Temperature (Nom) 28 °C

### Approval and Application

Order Code	Full Product Name	Energy Efficiency Label (EEL)
146712	PL-S 5W/827/2P/ALTO	B
148718	PL-S 7W/827/2P/ALTO	B
148734	PL-S 7W/841/2P/ALTO	B
148676	PL-S 9W/827/2P/ALTO	A
148700	PL-S 9W/841/2P/ALTO	A
146811	PL-S 13W/827/2P/ALTO	B
146845	PL-S 13W/835/2P/ALTO	B
146852	PL-S 13W/841/2P/ALTO	B
146878	PL-S 13W/850/2P/ALTO	B

### Operating and Electrical

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Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
146712	PL-S 5W/827/2P/ALTO	0.180 A	5.4 W
148718	PL-S 7W/827/2P/ALTO	0.175 A	7.1 W
148734	PL-S 7W/841/2P/ALTO	0.175 A	7.1 W
148676	PL-S 9W/827/2P/ALTO	0.170 A	8.7 W
148700	PL-S 9W/841/2P/ALTO	0.170 A	8.7 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
146811	PL-S 13W/827/2P/ALTO	0.290 A	13 W
146845	PL-S 13W/835/2P/ALTO	0.290 A	13 W
146852	PL-S 13W/841/2P/ALTO	0.290 A	13 W
146878	PL-S 13W/850/2P/ALTO	0.290 A	13 W

### General Information

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)
146712	PL-S 5W/827/2P/ALTO	G23	6500 h
148718	PL-S 7W/827/2P/ALTO	G23	6500 h
148734	PL-S 7W/841/2P/ALTO	G23	6500 h
148676	PL-S 9W/827/2P/ALTO	G23	6500 h
148700	PL-S 9W/841/2P/ALTO	G23	6500 h

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)
146811	PL-S 13W/827/2P/ALTO	GX23	6500 h
146845	PL-S 13W/835/2P/ALTO	GX23	0 h
146852	PL-S 13W/841/2P/ALTO	GX23	-
146878	PL-S 13W/850/2P/ALTO	GX23	0 h

### Light Technical (1/2)

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	LLMF 2000 h Rated
146712	PL-S 5W/827/2P/ALTO	827	Incandescent White	2700 K	89 %
148718	PL-S 7W/827/2P/ALTO	827	Incandescent White	2700 K	94 %
148734	PL-S 7W/841/2P/ALTO	841	Cool White (CW)	4100 K	94 %
148676	PL-S 9W/827/2P/ALTO	827	Incandescent White	2700 K	94 %
148700	PL-S 9W/841/2P/ALTO	841	Cool White (CW)	4100 K	94 %

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	LLMF 2000 h Rated
146811	PL-S 13W/827/2P/ALTO	827	Incandescent White	2700 K	94 %
146845	PL-S 13W/835/2P/ALTO	835	White (WH)	3500 K	94 %
146852	PL-S 13W/841/2P/ALTO	841	Cool White (CW)	4100 K	94 %
146878	PL-S 13W/850/2P/ALTO	850	Daylight	5000 K	94 %

### Light Technical (2/2)

Order Code	Full Product Name	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Efficacy (rated)	Luminous Flux (Rated)	
					(Nom)	Luminous Flux (Nom)	(Nom)
146712	PL-S 5W/827/2P/ALTO	83 %	80 %	77 %	48 lm/W	250 lm	259 lm
148718	PL-S 7W/827/2P/ALTO	91 %	89 %	86 %	57 lm/W	400 lm	405 lm
148734	PL-S 7W/841/2P/ALTO	91 %	89 %	86 %	57 lm/W	400 lm	405 lm
148676	PL-S 9W/827/2P/ALTO	91 %	89 %	86 %	67 lm/W	600 lm	583 lm
148700	PL-S 9W/841/2P/ALTO	91 %	89 %	86 %	67 lm/W	600 lm	583 lm
146811	PL-S 13W/827/2P/ALTO	91 %	89 %	86 %	-	825 lm	-
146845	PL-S 13W/835/2P/ALTO	91 %	89 %	86 %	-	825 lm	-
146852	PL-S 13W/841/2P/ALTO	91 %	89 %	86 %	-	825 lm	-
146878	PL-S 13W/850/2P/ALTO	91 %	89 %	86 %	-	810 lm	-

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