



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 or 1-800-555-0050

Versions



5W, G23, 2P



7W, G23, 2P

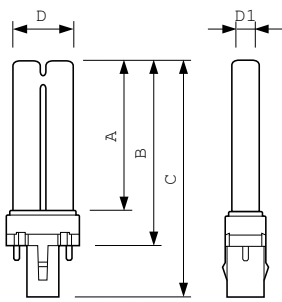


9W, G23, 2P



13W, GX23, 2P

Dimensional drawing



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

Operating and Electrical

| Order Code | Full Product Name | Lamp Current (Nom) | Power (Rated) (Nom) |
|------------|----------------------------------|--------------------|---------------------|
| 146712 | PL-S 5W/827/2P 1CT/5X10BOX ALTO | 0.180 A | 5.4 W |
| 148718 | PL-S 7W/827/2P 1CT/5X10BOX ALTO | 0.175 A | 7.1 W |
| 148734 | PL-S 7W/841/2P 1CT/5X10BOX ALTO | 0.175 A | 7.1 W |
| 148676 | PL-S 9W/827/2P 1CT/5X10BOX ALTO | 0.170 A | 8.7 W |
| 148700 | PL-S 9W/841/2P 1CT/5X10BOX ALTO | 0.170 A | 8.7 W |
| 146811 | PL-S 13W/827/2P 1CT/5X10BOX ALTO | 0.290 A | 13 W |
| 146845 | PL-S 13W/835/2P 1CT/5X10BOX ALTO | 0.290 A | 13 W |
| 146852 | PL-S 13W/841/2P 1CT/5X10BOX ALTO | 0.290 A | 13 W |
| 146878 | PL-S 13W/850/2P 1CT/5X10BOX ALTO | 0.290 A | 13 W |

General Information

PL-S Short 2-Pin Base

| Order Code | Full Product Name | Cap-Base | Life To 10% Failures | |
|------------|---------------------------------|----------|----------------------|---|
| | | | (Nom) | |
| 146712 | PL-S 5W/827/2P 1CT/5X10BOX ALTO | G23 | 6500 | h |
| 148718 | PL-S 7W/827/2P 1CT/5X10BOX ALTO | G23 | 6500 | h |
| 148734 | PL-S 7W/841/2P 1CT/5X10BOX ALTO | G23 | 6500 | h |
| 148676 | PL-S 9W/827/2P 1CT/5X10BOX ALTO | G23 | 6500 | h |
| 148700 | PL-S 9W/841/2P 1CT/5X10BOX ALTO | G23 | 6500 | h |

| Order Code | Full Product Name | Cap-Base | Life To 10% Failures | |
|------------|----------------------------------|----------|----------------------|---|
| | | | (Nom) | |
| 146811 | PL-S 13W/827/2P 1CT/5X10BOX ALTO | GX23 | 6500 | h |
| 146845 | PL-S 13W/835/2P 1CT/5X10BOX ALTO | GX23 | 0 | h |
| 146852 | PL-S 13W/841/2P 1CT/5X10BOX ALTO | GX23 | - | |
| 146878 | PL-S 13W/850/2P 1CT/5X10BOX ALTO | GX23 | 0 | h |

Light Technical (1/2)

| Order Code | Full Product Name | Color Code | Color Designation | Correlated Color LLMF | |
|------------|---------------------------------|------------|--------------------|-----------------------|--------------|
| | | | | Temperature (Nom) | 2000 h Rated |
| 146712 | PL-S 5W/827/2P 1CT/5X10BOX ALTO | 827 | Incandescent White | 2700 K | 89 % |
| 148718 | PL-S 7W/827/2P 1CT/5X10BOX ALTO | 827 | Incandescent White | 2700 K | 94 % |
| 148734 | PL-S 7W/841/2P 1CT/5X10BOX ALTO | 841 | Cool White (CW) | 4100 K | 94 % |
| 148676 | PL-S 9W/827/2P 1CT/5X10BOX ALTO | 827 | Incandescent White | 2700 K | 94 % |
| 148700 | PL-S 9W/841/2P 1CT/5X10BOX ALTO | 841 | Cool White (CW) | 4100 K | 94 % |

| Order Code | Full Product Name | Color Code | Color Designation | Correlated Color LLMF | |
|------------|----------------------------------|------------|--------------------|-----------------------|--------------|
| | | | | Temperature (Nom) | 2000 h Rated |
| 146811 | PL-S 13W/827/2P 1CT/5X10BOX ALTO | 827 | Incandescent White | 2700 K | 94 % |
| 146845 | PL-S 13W/835/2P 1CT/5X10BOX ALTO | 835 | White (WH) | 3500 K | 94 % |
| 146852 | PL-S 13W/841/2P 1CT/5X10BOX ALTO | 841 | Cool White (CW) | 4100 K | 94 % |
| 146878 | PL-S 13W/850/2P 1CT/5X10BOX ALTO | 850 | Daylight | 5000 K | 94 % |

Light Technical (2/2)

| Order Code | Full Product Name | LLMF | | | Luminous Efficacy | | Luminous Flux | |
|------------|----------------------------------|--------------|--------------|--------------|-------------------|---------------------|---------------|--|
| | | 4000 h Rated | 6000 h Rated | 8000 h Rated | (rated) (Nom) | Luminous Flux (Nom) | (Rated) (Nom) | |
| 146712 | PL-S 5W/827/2P 1CT/5X10BOX ALTO | 83 % | 80 % | 77 % | 48 lm/W | 250 lm | 259 lm | |
| 148718 | PL-S 7W/827/2P 1CT/5X10BOX ALTO | 91 % | 89 % | 86 % | 57 lm/W | 400 lm | 405 lm | |
| 148734 | PL-S 7W/841/2P 1CT/5X10BOX ALTO | 91 % | 89 % | 86 % | 57 lm/W | 400 lm | 405 lm | |
| 148676 | PL-S 9W/827/2P 1CT/5X10BOX ALTO | 91 % | 89 % | 86 % | 67 lm/W | 600 lm | 583 lm | |
| 148700 | PL-S 9W/841/2P 1CT/5X10BOX ALTO | 91 % | 89 % | 86 % | 67 lm/W | 600 lm | 583 lm | |
| 146811 | PL-S 13W/827/2P 1CT/5X10BOX ALTO | 91 % | 89 % | 86 % | - | 825 lm | - | |
| 146845 | PL-S 13W/835/2P 1CT/5X10BOX ALTO | 91 % | 89 % | 86 % | - | 825 lm | - | |
| 146852 | PL-S 13W/841/2P 1CT/5X10BOX ALTO | 91 % | 89 % | 86 % | - | 825 lm | - | |
| 146878 | PL-S 13W/850/2P 1CT/5X10BOX ALTO | 91 % | 89 % | 86 % | - | 810 lm | - | |

