



### The original!

PL-S is an efficient low-wattage compact fluorescent lamp, typically used for decorative and orientation purposes. The original Philips-invented bridge technology guarantees optimum performance in the application, enabling more light and higher efficacy than the bended technology. The 2-pin version is designed for operation on electromagnetic gear and is provided with a plug-in/pull-out lamp base.

#### Benefits

- Optimal light performance for short or long operation per switch on

- Long life and sustainable light output

#### Features

- 2-pin base with a housing incorporating the special instant starter and capacitor. For use on conventional copper iron ballasts and the radio interference suppression capacitor is installed. Dimming is not possible
- Lamp characteristics are influenced by operating conditions and control gear used

#### Application

- Designed for use in hotels, restaurants, theatres and homes
- Suitable for use in signs, corridors, security and orientation lighting

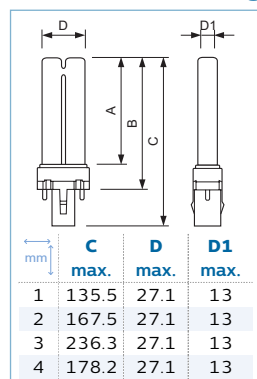
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### Product Range



### Dimension Drawing



### Main Data

#### PL-S

| Wattage/Light source color/<br>Pins | SAP Packing<br>(Piece)/Packaging<br>configuration | Cap-Base | Life to 50% Failures<br>(h) |  mm | Photo letter | Ordering number |
|-------------------------------------|---------------------------------------------------|----------|-----------------------------|----------------------------------------------------------------------------------------|--------------|-----------------|
| 7.1W/827/2P                         | CT / 25                                           | G23      | 8,000                       | B 1                                                                                    | A            | 871150070677500 |
| 7.1W/840/2P                         | CT / 25                                           | G23      | 8,000                       | B 1                                                                                    | A            | 871150070678200 |
| 7.1W/865/2P                         | CT / 25                                           | G23      | 8,000                       | B 1                                                                                    | A            | 871150063502000 |
| 8.6W/827/2P                         | CT / 25                                           | G23      | 8,000                       | B 2                                                                                    | B            | 871150070679900 |
| 8.6W/840/2P                         | CT / 25                                           | G23      | 8,000                       | B 2                                                                                    | B            | 871150070680500 |
| 8.6W/865/2P                         | CT / 25                                           | G23      | 8,000                       | B 2                                                                                    | B            | 871150063506800 |
| 11.6W/827/2P                        | CT / 25                                           | G23      | 8,000                       | A 3                                                                                    | C            | 871150070665200 |
| 11.6W/840/2P                        | CT / 25                                           | G23      | 8,000                       | A 3                                                                                    | C            | 871150070666900 |
| 11.6W/865/2P                        | CT / 25                                           | G23      | 8,000                       | A 3                                                                                    | C            | 692341076141200 |
| 11.6W/865/2P                        | CT / 25                                           | G23      | 8,000                       | A 3                                                                                    | C            | 871150063510500 |
| 13W/827/2P                          | CT / 25                                           | GX23     | 8,000                       | B 4                                                                                    | D            | 871150063819900 |
| 13W/840/2P                          | CT / 25                                           | GX23     | 8,000                       | B 4                                                                                    | D            | 871150063822900 |
| 13W/865/2P                          | CT / 25                                           | GX23     | 8,000                       | B 4                                                                                    | D            | 871150063828100 |

## Electrical data

| Commercial product name | Lamp Current<br>(A) | Lamp power<br>(W) | Voltage<br>(V) |
|-------------------------|---------------------|-------------------|----------------|
| PL-S 7W/827/2P 1CT/25   | 0.175               | 7.1               | 47             |
| PL-S 7W/840/2P 1CT/25   | 0.175               | 7.1               | 46             |
| PL-S 7W/865/2P 1CT/25   | 0.175               | 7.1               | 46             |
| PL-S 9W/827/2P 1CT/25   | 0.170               | 8.6               | 60             |
| PL-S 9W/840/2P 1CT/25   | 0.170               | 8.6               | 60             |
| PL-S 9W/865/2P 1CT/25   | 0.170               | 8.6               | 60             |
| PL-S 11W/827/2P 1CT/25  | 0.160               | 11.6              | 89             |
| PL-S 11W/840/2P 1CT/25  | 0.160               | 11.6              | 89             |
| PL-S 11W/865/2P 1CT/25  | 0.160               | 11.6              | 89             |
| PL-S 13W/827/2P 1CT/25  | 0.290               | 13.0              | 56             |
| PL-S 13W/840/2P 1CT/25  | 0.290               | 13.0              | 56             |
| PL-S 13W/865/2P 1CT/25  | 0.290               | 13.0              | 56             |

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## Lifetime data

| Commercial product name | Life to 50% Failures<br>(h) |
|-------------------------|-----------------------------|
| PL-S 7W/827/2P 1CT/25   | 8,000                       |
| PL-S 7W/840/2P 1CT/25   | 8,000                       |
| PL-S 7W/865/2P 1CT/25   | 8,000                       |
| PL-S 9W/827/2P 1CT/25   | 8,000                       |
| PL-S 9W/840/2P 1CT/25   | 8,000                       |
| PL-S 9W/865/2P 1CT/25   | 8,000                       |
| PL-S 11W/827/2P 1CT/25  | 8,000                       |
| PL-S 11W/840/2P 1CT/25  | 8,000                       |
| PL-S 11W/865/2P 1CT/25  | 8,000                       |
| PL-S 13W/827/2P 1CT/25  | 8,000                       |
| PL-S 13W/840/2P 1CT/25  | 8,000                       |
| PL-S 13W/865/2P 1CT/25  | 8,000                       |

## Color data

| Commercial product name | Colour Rendering Index | Light source color <sup>1</sup> | Color Designation  |
|-------------------------|------------------------|---------------------------------|--------------------|
| PL-S 7W/827/2P 1CT/25   | 83                     | 827                             | Incandescent White |
| PL-S 7W/840/2P 1CT/25   | 82                     | 840                             | Cool White (CW)    |
| PL-S 7W/865/2P 1CT/25   | 82                     | 865                             | Cool Daylight      |
| PL-S 9W/827/2P 1CT/25   | >80                    | 827                             | Incandescent White |
| PL-S 9W/840/2P 1CT/25   | 82                     | 840                             | Cool White (CW)    |
| PL-S 9W/865/2P 1CT/25   | 63                     | 865                             | Cool Daylight      |
| PL-S 11W/827/2P 1CT/25  | >80                    | 827                             | Incandescent White |
| PL-S 11W/840/2P 1CT/25  | 82                     | 840                             | Cool White (CW)    |
| PL-S 11W/865/2P 1CT/25  | 82                     | 865                             | Cool Daylight      |
| PL-S 13W/827/2P 1CT/25  | >80                    | 827                             | Incandescent White |
| PL-S 13W/840/2P 1CT/25  | 82                     | 840                             | Cool White (CW)    |
| PL-S 13W/865/2P 1CT/25  | 82                     | 865                             | Cool Daylight      |

<sup>1</sup> 'Light source color' value description(s): '827' = CCT of 2700K, '840' = CCT of 4000K, '865' = CCT of 6500K

## Luminous flux/efficacy/intensity data

| Commercial product name | Luminous Flux<br>(lm) | Luminous Efficacy (Rated)<br>(lm/W) |
|-------------------------|-----------------------|-------------------------------------|
| PL-S 7W/827/2P 1CT/25   | 405                   | 57.0                                |
| PL-S 7W/840/2P 1CT/25   | 405                   | 57.0                                |
| PL-S 7W/865/2P 1CT/25   | 400                   | 54.0                                |
| PL-S 9W/827/2P 1CT/25   | 600                   | 69.0                                |
| PL-S 9W/840/2P 1CT/25   | 600                   | 67.0                                |
| PL-S 9W/865/2P 1CT/25   | 600                   | 63.0                                |
| PL-S 11W/827/2P 1CT/25  | 893                   | 77.0                                |
| PL-S 11W/840/2P 1CT/25  | 900                   | 77.0                                |

More data see next page

| Commercial product name | Luminous Flux<br>(lm) | Luminous Efficacy (Rated)<br>(lm/W) |
|-------------------------|-----------------------|-------------------------------------|
| PL-S 11W/865/2P 1CT/25  | 900                   | 72.0                                |
| PL-S 13W/827/2P 1CT/25  | 900                   | 62.3                                |
| PL-S 13W/840/2P 1CT/25  | 900                   | 66.0                                |
| PL-S 13W/865/2P 1CT/25  | 900                   | 63.0                                |

## Rated Lumen Maintenance data

| Commercial product name | Lumen Maintenance 2000 h<br>(%) | Lumen Maintenance 5000 h<br>(%) |
|-------------------------|---------------------------------|---------------------------------|
| PL-S 7W/827/2P 1CT/25   | 90                              | 81                              |
| PL-S 7W/840/2P 1CT/25   | 90                              | 80                              |
| PL-S 7W/865/2P 1CT/25   | 85                              | 75                              |
| PL-S 9W/827/2P 1CT/25   | 90                              | 81                              |
| PL-S 9W/840/2P 1CT/25   | 90                              | 85                              |
| PL-S 9W/865/2P 1CT/25   | 85                              | 80                              |
| PL-S 11W/827/2P 1CT/25  | 95                              | 85                              |
| PL-S 11W/840/2P 1CT/25  | 95                              | 85                              |
| PL-S 11W/865/2P 1CT/25  | 90                              | 80                              |
| PL-S 13W/827/2P 1CT/25  | 85                              | 80                              |
| PL-S 13W/840/2P 1CT/25  | 85                              | 80                              |
| PL-S 13W/865/2P 1CT/25  | 82                              | 77                              |

## Temperature data

| Commercial product name | Correlated Color Temperature<br>(K) | Default Ambient Temperature<br>(°C) |
|-------------------------|-------------------------------------|-------------------------------------|
| PL-S 7W/827/2P 1CT/25   | 2,700                               | 25                                  |
| PL-S 7W/840/2P 1CT/25   | 4,000                               | 25                                  |
| PL-S 7W/865/2P 1CT/25   | 6,500                               | 25                                  |
| PL-S 9W/827/2P 1CT/25   | 2,700                               | 25                                  |
| PL-S 9W/840/2P 1CT/25   | 4,000                               | 25                                  |
| PL-S 9W/865/2P 1CT/25   | 6,500                               | 25                                  |
| PL-S 11W/827/2P 1CT/25  | 2,700                               | 25                                  |
| PL-S 11W/840/2P 1CT/25  | 4,000                               | 25                                  |
| PL-S 11W/865/2P 1CT/25  | 6,500                               | 25                                  |
| PL-S 13W/827/2P 1CT/25  | 2,700                               | 25                                  |
| PL-S 13W/840/2P 1CT/25  | 4,000                               | 25                                  |
| PL-S 13W/865/2P 1CT/25  | 6,500                               | 25                                  |

## Environmental data & ETIM group & Design Requirements

| Commercial product name |  | Mercury (Hg) Content<br>(mg) | ETIM Group <sup>2</sup> |
|-------------------------|-------------------------------------------------------------------------------------|------------------------------|-------------------------|
| PL-S 7W/827/2P 1CT/25   | B                                                                                   | 1.4                          | EC000087                |
| PL-S 7W/840/2P 1CT/25   | B                                                                                   | 1.4                          | EC000087                |
| PL-S 7W/865/2P 1CT/25   | B                                                                                   | 1.4                          | EC000087                |
| PL-S 9W/827/2P 1CT/25   | B                                                                                   | 1.4                          | EC000087                |
| PL-S 9W/840/2P 1CT/25   | B                                                                                   | 1.4                          | EC000087                |
| PL-S 9W/865/2P 1CT/25   | B                                                                                   | 1.4                          | EC000087                |
| PL-S 11W/827/2P 1CT/25  | A                                                                                   | 1.4                          | EC000087                |
| PL-S 11W/840/2P 1CT/25  | A                                                                                   | 1.4                          | EC000087                |
| PL-S 11W/865/2P 1CT/25  | A                                                                                   | 1.4                          | EC000087                |
| PL-S 13W/827/2P 1CT/25  | B                                                                                   | 1.4                          | EC000087                |
| PL-S 13W/840/2P 1CT/25  | B                                                                                   | 1.4                          | EC000087                |
| PL-S 13W/865/2P 1CT/25  | B                                                                                   | 1.4                          | EC000087                |

<sup>2</sup> 'ETIM Group' value description(s): 'EC000087' = Compact Fluor Lamp Non Integrated



## Operating data

| Commercial product name | Default Burning Position | Default Gear    |  | Default Cycle Time |
|-------------------------|--------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------|
| PL-S 7W/827/2P 1CT/25   | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 7W/840/2P 1CT/25   | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 7W/865/2P 1CT/25   | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 9W/827/2P 1CT/25   | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 9W/840/2P 1CT/25   | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 9W/865/2P 1CT/25   | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 11W/827/2P 1CT/25  | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 11W/840/2P 1CT/25  | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 11W/865/2P 1CT/25  | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 13W/827/2P 1CT/25  | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 13W/840/2P 1CT/25  | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |
| PL-S 13W/865/2P 1CT/25  | Base up                  | Electromagnetic | No                                                                                  | 3 hour cycle       |

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## Miscellaneous &amp; General data

| Commercial product name | Cap-Base | Cap-Base Information <sup>3</sup> | ILCOS Code         |
|-------------------------|----------|-----------------------------------|--------------------|
| PL-S 7W/827/2P 1CT/25   | G23      | 2P                                | FSD-7/27/1B-I-G23  |
| PL-S 7W/840/2P 1CT/25   | G23      | 2P                                |                    |
| PL-S 7W/865/2P 1CT/25   | G23      | 2P                                |                    |
| PL-S 9W/827/2P 1CT/25   | G23      | 2P                                | FSD-9/27/1B-I-G23  |
| PL-S 9W/840/2P 1CT/25   | G23      | 2P                                |                    |
| PL-S 9W/865/2P 1CT/25   | G23      | 2P                                |                    |
| PL-S 11W/827/2P 1CT/25  | G23      | 2P                                | FSD-11/27/1B-I-G23 |
| PL-S 11W/840/2P 1CT/25  | G23      | 2P                                |                    |
| PL-S 11W/865/2P 1CT/25  | G23      | 2P                                |                    |
| PL-S 13W/827/2P 1CT/25  | GX23     | 2P                                |                    |
| PL-S 13W/840/2P 1CT/25  | GX23     | 2P                                |                    |
| PL-S 13W/865/2P 1CT/25  | GX23     | 2P                                |                    |

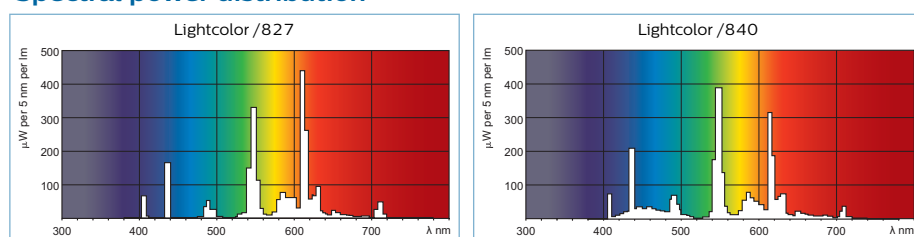
<sup>3</sup> 'Cap-Base Information' value description(s): '2P' = 2 Pins

## Logistic data

| Commercial product name | SAP Packing (Piece)/Packaging configuration <sup>4</sup> | Numerator - Packs per outer box | Ordering number | Material Nr. (12NC) | SAP Gross Weight (Piece) | Net Weight (Piece) | EAN-3         |
|-------------------------|----------------------------------------------------------|---------------------------------|-----------------|---------------------|--------------------------|--------------------|---------------|
|                         |                                                          |                                 |                 | (9279...)           | (g)                      | (g)                |               |
| PL-S 7W/827/2P 1CT/25   | CT / 25                                                  | 25                              | 871150070677500 | 01108265            | 33                       | 27                 | 8711500534002 |
| PL-S 7W/840/2P 1CT/25   | CT / 25                                                  | 25                              | 871150070678200 | 01108465            | 33                       | 27                 | 8711500534019 |
| PL-S 7W/865/2P 1CT/25   | CT / 25                                                  | 25                              | 871150063502000 | 01186565            | 33                       | 27                 | 8711500534026 |
| PL-S 9W/827/2P 1CT/25   | CT / 25                                                  | 25                              | 871150070679900 | 01708265            | 40                       | 32                 | 8711500534033 |
| PL-S 9W/840/2P 1CT/25   | CT / 25                                                  | 25                              | 871150070680500 | 01708465            | 40                       | 32                 | 8711500534040 |
| PL-S 9W/865/2P 1CT/25   | CT / 25                                                  | 25                              | 871150063506800 | 01786565            | 40                       | 32                 | 8711500534057 |
| PL-S 11W/827/2P 1CT/25  | CT / 25                                                  | 25                              | 871150070665200 | 02308265            | 54                       | 43                 | 8711500534064 |
| PL-S 11W/840/2P 1CT/25  | CT / 25                                                  | 25                              | 871150070666900 | 02308465            | 54                       | 43                 | 8711500534071 |
| PL-S 11W/865/2P 1CT/25  | CT / 25                                                  | 25                              | 692341076141200 | 02386503            | 54                       | 43                 | 6923410762457 |
| PL-S 11W/865/2P 1CT/25  | CT / 25                                                  | 25                              | 871150063510500 | 02386565            | 54                       | 43                 | 8711500534088 |
| PL-S 13W/827/2P 1CT/25  | CT / 25                                                  | 25                              | 871150063819900 | 02882765            | 43                       | 35                 | 8711500534095 |
| PL-S 13W/840/2P 1CT/25  | CT / 25                                                  | 25                              | 871150063822900 | 02884065            | 43                       | 35                 | 8711500534101 |
| PL-S 13W/865/2P 1CT/25  | CT / 25                                                  | 25                              | 871150063828100 | 02886565            | 43                       | 35                 | 8711500534125 |

<sup>4</sup> 'SAP Packing (Piece)/Packaging configuration' value description(s): 'CT / 25' = CARTON

## Spectral power distribution



Cap-Base Overview

