# Product Description

## MASTER SON-T PIA Plus

High Pressure Sodium lamp with clear tubular outer bulb, high output and long reliable lifetime

### Benefits

- Superior technology results in a long and reliable lifetime, high lumen maintenance and a reliable ignition over lifetime
- High energy efficacy and absence of lead (Pb) makes this a sound environmental offer
- High luminous efficacy makes this the most energy efficient HPS lamp

### Features

- Clear tubular outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- ZrCo getter ensures high lumen maintenance and few early failures
- "Plus" concept with high efficacy translated into high light output
- Completely lead-free lamps

### Application

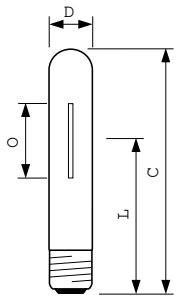
- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities Outdoor and Indoor
- Horticultural lighting

### Warnings and Safety

- Control gear must include end-of-life protection (IEC60662, IEC 62035)
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

# MASTER SON-T PIA Plus

## Dimensional drawing




| Product | D (max) | O | L | C (max) |
|---|---|---|---|---|
| MST SON-T PIA Plus 100W E40 1SL/12 | 47 mm | 47 mm | 132 mm | 209 mm |
| MST SON-T PIA Plus 100W/220 E40 1SL/12 | 48 mm | 47 mm | 132 mm | 210 mm |
| MST SON-T PIA Plus 150W E40 1SL/12 | 47 mm | 61 mm | 132 mm | 209 mm |
| MST SON-T PIA Plus 150W/220 E40 - 1SL/12 | 48 mm | 61 mm | 132 mm | 210 mm |
| MST SON-T PIA Plus 250W E E40 1SL/12 | 48 mm | 64 mm | 158 mm | 257 mm |
| MST SON-T PIA Plus 250W E40 1SL/12 | 48 mm | 64 mm | 158 mm | 257 mm |
| MST SON-T PIA Plus 400W E E40 1SL/12 | 48 mm | 83 mm | 175 mm | 279 mm |
| MST SON-T PIA Plus 400W E40 1SL/12 | 48 mm | 83 mm | 175 mm | 279 mm |
| MST SON-T PIA Plus 50W/220 E27 1SL/12 | 36 mm | 35 mm | 104 mm | 156 mm |
| MST SON-T PIA Plus 600W/220 E40 1SL/12 | 47 mm | 126 mm | 174.2 mm | 279 mm |
| MST SON-T PIA Plus 70W/220 E27 1SL/12 | 36 mm | 42 mm | 104 mm | 156 mm |
| MSTSON-TPIA Plus 70W E27 1CT/12 | 35.75 mm | 42 mm | 102 mm | 156 mm |

### General Information

| | |
|---|---|
| **Operating Position** | UNIVERSAL |

### Light Technical

| | |
|---|---|
| **Color rendering index (CRI)** | - |

### Mechanical and Housing

| | |
|---|---|
| **Bulb Finish** | Clear |

## General Information

| Order Code | Full Product Name | Cap-Base |
|---|---|---|
| 17987615 | MASTER SON-T PIA Plus 250W E E40 1SL/12 | E40 |
| 18075300 | MASTER SON-T PIA Plus 250W E40 1SL/12 | E40 |
| 17988315 | MASTER SON-T PIA Plus 400W E E40 1SL/12 | E40 |
| 18077700 | MASTER SON-T PIA Plus 400W E40 1SL/12 | E40 |
| 19229515 | MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12 | E40 |
| 19230115 | MST SON-T PIA PLUS 100W/220 E40 SL/12 | E40 |

| Order Code | Full Product Name | Cap-Base |
|---|---|---|
| 19742915 | MASTER SON-T PIA Plus 600W/220 E40 1SL/12 | E40 |
| 18071500 | MASTER SON-T PIA Plus 100W E40 1SL/12 | E40 |
| 18073900 | MASTER SON-T PIA Plus 150W E40 1SL/12 | E40 |
| 19265315 | MASTER SON-T PIA Plus 50W/220 E27 1SL/12 | E27 |
| 19266015 | MASTER SON-T PIA Plus 70W/220 E27 1SL/12 | E27 |
| 18069200 | MASTER SON-T PIA Plus 70W E27 1SL/12 | E27 |

## Light Technical

| Order Code | Full Product Name | Chromaticity Coordinate X (Nom) | Chromaticity Coordinate Y (Nom) | Correlated Color Temperature (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux |
|---|---|---|---|---|---|---|
| 17987615 | MASTER SON-T PIA Plus 250W E E40 1SL/12 | 0.535 | 0.420 | 2000 K | 125 lm/W | 33,000 lm |
| 18075300 | MASTER SON-T PIA Plus 250W E40 1SL/12 | 0.535 | 0.420 | 2000 K | 125 lm/W | 33,000 lm |
| 17988315 | MASTER SON-T PIA Plus 400W E E40 1SL/12 | 0.535 | 0.42 | 2000 K | 137 lm/W | 55,900 lm |
| 18077700 | MASTER SON-T PIA Plus 400W E40 1SL/12 | 0.535 | 0.42 | 2000 K | 137 lm/W | 55,900 lm |
| 19229515 | MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12 | 0.535 | 0.42 | 2000 K | 115.16 lm/W | 17,800 lm |
| 19230115 | MST SON-T PIA PLUS 100W/220 E40 SL/12 | 0.535 | 0.42 | 2000 K | 105 lm/W | 10,600 lm |
| 19742915 | MASTER SON-T PIA Plus 600W/220 E40 1SL/12 | 0.530 | 0.428 | 2000 K | 149 lm/W | - |
| 18071500 | MASTER SON-T PIA Plus 100W E40 1SL/12 | 0.535 | 0.42 | 2000 K | 105 lm/W | 10,600 lm |
| 18073900 | MASTER SON-T PIA Plus 150W E40 1SL/12 | 0.535 | 0.42 | 2000 K | 115 lm/W | 17,800 lm |
| 19265315 | MASTER SON-T PIA Plus 50W/220 E27 1SL/12 | 0.54 | 0.42 | 1900 K | 83 lm/W | 4,500 lm |
| 19266015 | MASTER SON-T PIA Plus 70W/220 E27 1SL/12 | 0.54 | 0.42 | 1900 K | 90 lm/W | 6,650 lm |
| 18069200 | MASTER SON-T PIA Plus 70W E27 1SL/12 | 0.54 | 0.42 | 1900 K | 91 lm/W | 6,650 lm |

# MASTER SON-T PIA Plus

## Operating and Electrical

| Order Code | Full Product Name | Voltage (Nom) | Power Consumption |
|---|---|---|---|
| 17987615 | MASTER SON-T PIA Plus 250W E E40 1SL/12 | 109 V | 264 W |
| 18075300 | MASTER SON-T PIA Plus 250W E40 1SL/12 | 102 V | 264 W |
| 17988315 | MASTER SON-T PIA Plus 400W E E40 1SL/12 | 105 V | 408.0 W |
| 18077700 | MASTER SON-T PIA Plus 400W E40 1SL/12 | 105 V | 408.0 W |
| 19229515 | MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12 | 104 V | 155.0 W |
| 19230115 | MST SON-T PIA PLUS 100W/220 E40 SL/12 | 100 V | 101.0 W |

| Order Code | Full Product Name | Voltage (Nom) | Power Consumption |
|---|---|---|---|
| 19742915 | MASTER SON-T PIA Plus 600W/220 E40 1SL/12 | 110 V | 603 W |
| 18071500 | MASTER SON-T PIA Plus 100W E40 1SL/12 | 100 V | 101.0 W |
| 18073900 | MASTER SON-T PIA Plus 150W E40 1SL/12 | 100 V | 155.0 W |
| 19265315 | MASTER SON-T PIA Plus 50W/220 E27 1SL/12 | 91 V | 54.5 W |
| 19266015 | MASTER SON-T PIA Plus 70W/220 E27 1SL/12 | 92 V | 74 W |
| 18069200 | MASTER SON-T PIA Plus 70W E27 1SL/12 | 93 V | 74.0 W |

## Controls and Dimming

| Order Code | Full Product Name | Dimmable |
|---|---|---|
| 17987615 | MASTER SON-T PIA Plus 250W E E40 1SL/12 | Yes |
| 18075300 | MASTER SON-T PIA Plus 250W E40 1SL/12 | Yes |
| 17988315 | MASTER SON-T PIA Plus 400W E E40 1SL/12 | Yes |
| 18077700 | MASTER SON-T PIA Plus 400W E40 1SL/12 | Yes |
| 19229515 | MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12 | Yes |
| 19230115 | MST SON-T PIA PLUS 100W/220 E40 SL/12 | Yes |

| Order Code | Full Product Name | Dimmable |
|---|---|---|
| 19742915 | MASTER SON-T PIA Plus 600W/220 E40 1SL/12 | No |
| 18071500 | MASTER SON-T PIA Plus 100W E40 1SL/12 | Yes |
| 18073900 | MASTER SON-T PIA Plus 150W E40 1SL/12 | Yes |
| 19265315 | MASTER SON-T PIA Plus 50W/220 E27 1SL/12 | Yes |
| 19266015 | MASTER SON-T PIA Plus 70W/220 E27 1SL/12 | Yes |
| 18069200 | MASTER SON-T PIA Plus 70W E27 1SL/12 | Yes |

## Mechanical and Housing

| Order Code | Full Product Name | Bulb Shape |
|---|---|---|
| 17987615 | MASTER SON-T PIA Plus 250W E E40 1SL/12 | T46 |
| 18075300 | MASTER SON-T PIA Plus 250W E40 1SL/12 | T46 |
| 17988315 | MASTER SON-T PIA Plus 400W E E40 1SL/12 | T46 |
| 18077700 | MASTER SON-T PIA Plus 400W E40 1SL/12 | T46 |
| 19229515 | MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12 | T46 |
| 19230115 | MST SON-T PIA PLUS 100W/220 E40 SL/12 | T46 |

| Order Code | Full Product Name | Bulb Shape |
|---|---|---|
| 19742915 | MASTER SON-T PIA Plus 600W/220 E40 1SL/12 | T46 |
| 18071500 | MASTER SON-T PIA Plus 100W E40 1SL/12 | T46 |
| 18073900 | MASTER SON-T PIA Plus 150W E40 1SL/12 | T46 |
| 19265315 | MASTER SON-T PIA Plus 50W/220 E27 1SL/12 | T35 |
| 19266015 | MASTER SON-T PIA Plus 70W/220 E27 1SL/12 | T35 |
| 18069200 | MASTER SON-T PIA Plus 70W E27 1SL/12 | T35 |

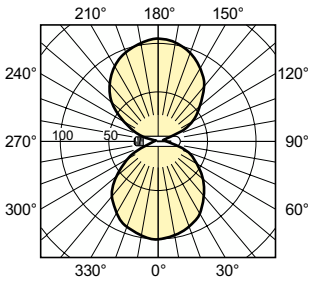
## Approval and Application

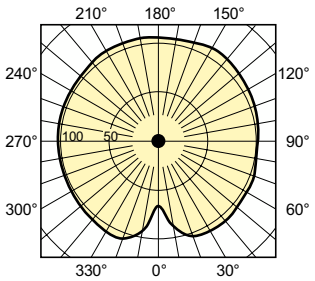
| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Mercury (Hg) Content (Max) | Mercury (Hg) Content (Nom) |
|---|---|---|---|---|
| 17987615 | MASTER SON-T PIA Plus 250W E E40 1SL/12 | 257 kWh | 15.1 mg | 15.1 mg |
| 18075300 | MASTER SON-T PIA Plus 250W E40 1SL/12 | 257 kWh | 15.1 mg | 15.1 mg |
| 17988315 | MASTER SON-T PIA Plus 400W E E40 1SL/12 | 408 kWh | 19.6 mg | 20 mg |
| 18077700 | MASTER SON-T PIA Plus 400W E40 1SL/12 | 408 kWh | 19.6 mg | 20 mg |
| 19229515 | MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12 | 155 kWh | 15.1 mg | 15 mg |

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Mercury (Hg) Content (Max) | Mercury (Hg) Content (Nom) |
|---|---|---|---|---|
| 19230115 | MST SON-T PIA PLUS 100W/220 E40 SL/12 | 101 kWh | 16.3 mg | 16.3 mg |
| 19742915 | MASTER SON-T PIA Plus 600W/220 E40 1SL/12 | 663 kWh | - | 18.9 mg |
| 18071500 | MASTER SON-T PIA Plus 100W E40 1SL/12 | 101 kWh | 16.3 mg | 14.3 mg |
| 18073900 | MASTER SON-T PIA Plus 150W E40 1SL/12 | 155 kWh | 15.1 mg | 13.9 mg |
| 19265315 | MASTER SON-T PIA Plus 50W/220 E27 1SL/12 | 55 kWh | 9.8 mg | 9.8 mg |

# MASTER SON-T PIA Plus

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Mercury (Hg) Content (Max) | Mercury (Hg) Content (Nom) |
|---|---|---|---|---|
| 19266015 | MASTER SON-T PIA Plus 70W/220 E27 1SL/12 | 73 kWh | 12.2 mg | 12.2 mg |
| 18069200 | MASTER SON-T PIA Plus 70W E27 1SL/12 | 73 kWh | 12.2 mg | 12.2 mg |

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