



# The most reliable solution in road lighting

## MASTER SON PIA Plus

High Pressure Sodium lamp with opalized ovoid outer bulb, high output and long reliable lifetime

### Benefits

- High efficacy/lumen output resulting in low energy cost
- Long and reliable lifetime reducing maintenance cost
- Constant light over lifetime

### Features

- Ovoid, white coated outer bulb
- Ceramic discharge tube with Unique Philips Integrated Antenna (PIA) concept enabling long and reliable lifetime
- "Plus" concept with high efficacy translates into high light output and improved lumen maintenance
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life

### Application

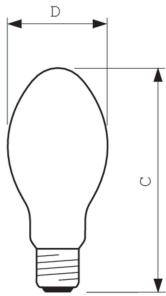
- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities, indoor and outdoor

# MASTER SON PIA Plus

## 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.

## Dimensional drawing



Product	D (max)	C (max)
MASTER SON PIA Plus 100W/220 E40 1SL/12	76 mm	186 mm
MASTER SON PIA Plus 150W/220 E40 1SL/12	91 mm	227 mm
MASTER SON PIA Plus 250W/220 E40 1SL/12	91 mm	227 mm
MASTER SON PIA Plus 400W/220 E40 1SL/12	122 mm	290 mm
MASTER SON PIA Plus 50W E27	71 mm	156 mm
MASTER SON PIA Plus 70W E27	71 mm	156 mm
MASTER SON PIA Plus 70W/220 I E27 1CT/24	70 mm	152 mm

General Information	
Operating Position	UNIVERSAL
Light Technical	
Color rendering index (CRI)	-
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Bulb Finish	Coated glass

## General Information

Order Code	Full Product Name	Cap-Base
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	E40
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	E40
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	E40
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	E40

Order Code	Full Product Name	Cap-Base
928061009835	MASTER SON PIA Plus 70W E27	E27
928061109835	MASTER SON PIA Plus 50W E27	E27
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	E27

## Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color	Luminous Efficacy (rated)	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)	Temperature (Nom)	(Nom)	
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	0.535	0.42	2000 K	107.79 lm/W	16,600 lm
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	0.535	0.42	2000 K	95 lm/W	9,600 lm
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	0.535	0.42	2000 K	120 lm/W	30,000 lm
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	0.535	0.42	2000 K	136.27 lm/W	55,600 lm
928061009835	MASTER SON PIA Plus 70W E27	0.54	0.42	1900 K	83.33 lm/W	6,000 lm
928061109835	MASTER SON PIA Plus 50W E27	0.540	0.420	1900 K	71 lm/W	3,700 lm
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	0.54	0.42	1900 K	80 lm/W	5,750 lm

## Operating and Electrical

## MASTER SON PIA Plus

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	100 V	154.0 W
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	100 V	101.0 W
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	96 V	250.0 W

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	105 V	408.0 W
928061009835	MASTER SON PIA Plus 70W E27	90 V	72.0 W
928061109835	MASTER SON PIA Plus 50W E27	85 V	52.0 W
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	92 V	71.5 W

### Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	BD90
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	B75
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	BD90
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	BD120

Order Code	Full Product Name	Bulb Shape
928061009835	MASTER SON PIA Plus 70W E27	B70
928061109835	MASTER SON PIA Plus 50W E27	BF70
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	B70

### Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury Content (Hg) (Max)	Mercury Content (Hg) (Nom)
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	154 kWh	15.1 mg	15 mg
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	101 kWh	16.3 mg	16.3 mg
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	250 kWh	15.1 mg	15.1 mg
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	408 kWh	19.6 mg	20 mg
928061009835	MASTER SON PIA Plus 70W E27	72 kWh	12.2 mg	12.2 mg
928061109835	MASTER SON PIA Plus 50W E27	52 kWh	9.8 mg	9.8 mg
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	72 kWh	14.3 mg	14.3 mg

