



Product Description

MASTER SON PIA Plus

High Pressure Sodium lamp with opalized ovoid 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

- Ovoid, internally white coated 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

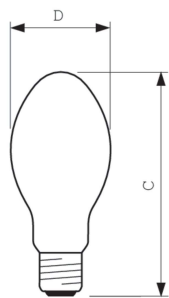
- Road and residential lighting
- Industrial lighting both indoor and outdoor
- Recreational sports facilities Outdoor and Indoor

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 PIA Plus

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	
Colour rendering index (CRI)	-
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Lamp Finish	Coated glass

General Information

Order Code	Full Product Name	Cap base
18228915	MASTER SON PIA Plus 150W/220 E40 1SL/12	E40
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	E40
19344515	MASTER SON PIA Plus 250W/220 E40 1SL/12	E40
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	E40

Order Code	Full Product Name	Cap base
18040100	MASTER SON PIA Plus 70W E27	E27
18038800	MASTER SON PIA Plus 50W E27	E27
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	E27

Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Colour	Luminous efficacy (rated)	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)	Temperature (Nom)	(nom.)	
18228915	MASTER SON PIA Plus 150W/220 E40 1SL/12	0.535	0.42	2000 K	107.79 lm/W	16,600 lm
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	0.535	0.42	2000 K	95 lm/W	9,600 lm
19344515	MASTER SON PIA Plus 250W/220 E40 1SL/12	0.535	0.42	2000 K	120 lm/W	30,000 lm
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	0.535	0.42	2000 K	136.27 lm/W	55,600 lm
18040100	MASTER SON PIA Plus 70W E27	0.54	0.42	1900 K	83.33 lm/W	6,000 lm
18038800	MASTER SON PIA Plus 50W E27	0.540	0.420	1900 K	71 lm/W	3,700 lm
20426430	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

Order Code	Full Product Name	Voltage (nom.)	Power Consumption
18228915	MASTER SON PIA Plus 150W/220 E40 1SL/12	100 V	154.0 W

Order Code	Full Product Name	Voltage (nom.)	Power Consumption
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	100 V	101.0 W

MASTER SON PIA Plus

Order Code	Full Product Name	Voltage (nom.)	Power Consumption
19344515	MASTER SON PIA Plus 250W/220 E40 1SL/12	96 V	250.0 W
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	105 V	408.0 W

Order Code	Full Product Name	Voltage (nom.)	Power Consumption
18040100	MASTER SON PIA Plus 70W E27	90 V	72.0 W
18038800	MASTER SON PIA Plus 50W E27	85 V	52.0 W
20426430	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
18228915	MASTER SON PIA Plus 150W/220 E40 1SL/12	BD90
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	B75
19344515	MASTER SON PIA Plus 250W/220 E40 1SL/12	BD90
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	BD120

Order Code	Full Product Name	Bulb shape
18040100	MASTER SON PIA Plus 70W E27	B70
18038800	MASTER SON PIA Plus 50W E27	BF70
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	B70

Approval and Application

Order Code	Full Product Name	Energy consumption kWh/1,000 hours	Mercury (Hg) content (max.)	Mercury (Hg) content (nom.)
18228915	MASTER SON PIA Plus 150W/220 E40 1SL/12	154 kWh	15.1 mg	15 mg
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	101 kWh	16.3 mg	16.3 mg
19344515	MASTER SON PIA Plus 250W/220 E40 1SL/12	250 kWh	15.1 mg	15.1 mg
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	408 kWh	19.6 mg	20 mg
18040100	MASTER SON PIA Plus 70W E27	72 kWh	12.2 mg	12.2 mg
18038800	MASTER SON PIA Plus 50W E27	52 kWh	9.8 mg	9.8 mg
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	72 kWh	16.3 mg	16.3 mg

