



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.

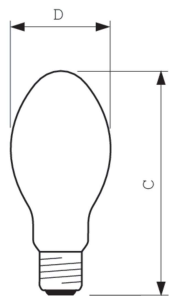
MASTER SON PIA Plus

Versions



LPPR SON-PIA 0002

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 70W/220 I E27 1CT/24	70 mm	152 mm

General Information	
Operating Position	UNIVERSAL
Light Technical	
Chromaticity Coordinate Y (Nom)	0.42
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
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

Order Code	Full Product Name	Cap-Base
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	E40
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	E27

Light Technical

MASTER SON PIA Plus

Order Code	Full Product Name	Chromaticity	Correlated Color	Luminous Efficacy	Luminous Flux
		Coordinate X (Nom)	Temperature (Nom)	(rated) (Nom)	
18228915	MASTER SON PIA Plus 150W/220 E40 1SL/12	0.535	2000 K	107.79 lm/W	16,600 lm
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	0.535	2000 K	95 lm/W	9,600 lm
19344515	MASTER SON PIA Plus 250W/220 E40 1SL/12	0.535	2000 K	120 lm/W	30,000 lm

Order Code	Full Product Name	Chromaticity	Correlated Color	Luminous Efficacy	Luminous Flux
		Coordinate X (Nom)	Temperature (Nom)	(rated) (Nom)	
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	0.535	2000 K	136.27 lm/W	55,600 lm
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	0.54	1900 K	80 lm/W	5,750 lm

Operating and Electrical

Order Code	Full Product Name	Power	
		Voltage (Nom)	Consumption
18228915	MASTER SON PIA Plus 150W/220 E40 1SL/12	100 V	154.0 W
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	100 V	101.0 W
19344515	MASTER SON PIA Plus 250W/220 E40 1SL/12	96 V	250.0 W

Order Code	Full Product Name	Power	
		Voltage (Nom)	Consumption
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	105 V	408.0 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

Order Code	Full Product Name	Bulb Shape
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	BD120
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	B70

Approval and Application

Order Code	Full Product Name	Energy Consumption	Mercury (Hg) Content	Mercury (Hg) Content
		kWh/1000 h	(Max)	(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
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	72 kWh	16.3 mg	16.3 mg

