



The highly efficient and most reliable solution in road lighting

MASTER SON APIA Plus Xtra

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

Benefits

- Most-cost effective solution (both initial as well as running cost) in this category
- 6 years service life
- Highest lumen output, maintained over life

Features

- Ovoid-shaped coated outer bulb
- Ceramic discharge tube with new Active Philips Integrated Antenna (APIA) concept for an improved and prolonged lifetime of up to 6 years
- "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
- Dimmable

Application

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

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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.

Controls and Dimming	
Dimmable	Yes
Operating and Electrical	
Re-ignition Time (Min) (Max)	180 s
General Information	
Cap-Base	E27
LSF 12000 h Rated	99 %
LSF 2000 h Rated	99 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %
Operating Position	UNIVERSAL
System Description	External Ignitor (E)
Luminaire Design Requirements	
Bulb Temperature (Max)	350 °C
Light Technical	
Chromaticity Coordinate X (Nom)	0.54
Chromaticity Coordinate Y (Nom)	0.42
Colour Code	-
Correlated Colour Temperature (Nom)	1900 K
Colour Rendering Index (Max)	25
LLMF 12000 h Rated	85 %
LLMF 16000 h Rated	84 %
LLMF 2000 h Rated	91 %
LLMF 20000 h Rated	84 %
LLMF 4000 h Rated	88 %
LLMF 6000 h Rated	87 %
LLMF 8000 h Rated	86 %
Ratio Scotopic/Photopic Lumens	0.50
Mechanical and Housing	
Bulb Finish	Coated glass
Bulb Shape	B70

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	56 kWh	A	9.8 mg
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	81 kWh	A+	12.2 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	0.76 A	100 V	70 V	81 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	0.96 A	105 V	75 V	92 V

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Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	51.0 W

Order Code	Full Product Name	Power (Rated) (Nom)
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	74.0 W

General Information (1/2)

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 50%	Life To 5%
		Failures (Nom)	Failures (Nom)	Failures (Nom)	Failures (Nom)
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	25000 h	29500 h	38000 h	21000 h

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 50%	Life To 5%
		Failures (Nom)	Failures (Nom)	Failures (Nom)	Failures (Nom)
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	28000 h	32000 h	40000 h	24000 h

General Information (2/2)

Order Code	Full Product Name	LSF 16000 h	LSF 20000 h
		Rated	Rated
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	98 %	96 %

Order Code	Full Product Name	LSF 16000 h	LSF 20000 h
		Rated	Rated
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	99 %	97 %

Light Technical

Order Code	Full Product Name	Luminous Efficacy	Luminous Flux
		(rated) (Nom)	(Rated) (Nom)
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	76.47 lm/W	3900 lm

Order Code	Full Product Name	Luminous Efficacy	Luminous Flux
		(rated) (Nom)	(Rated) (Nom)
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	89.19 lm/W	6600 lm

