PHILIPS

Lighting

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

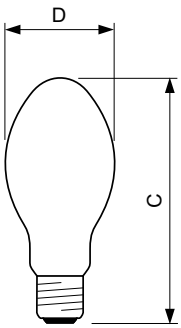
MASTER SON APIA Plus Xtra

Warnings and Safety

- Control gear must include end-of-life protection (IEC60662, IEC 62035)

Versions

Dimensional drawing



Product
MASTER SON APIA Plus Xtra 50W E27 1SL/24
MASTER SON APIA Plus Xtra 70W E27 1SL/24
MASTER SON APIA Plus Xtra 100W E40 1SL/12

MASTER SON APIA Plus Xtra

Controls and Dimming	
Dimmable	yes

General Information	
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	
Colour Code	-
Colour Rendering Index (Max)	25

Mechanical and Housing	
Bulb Finish	Coated glass

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	55 kWh	A	9.8 mg
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	83 kWh	A+	12.0 mg
92743600	MASTER SON APIA Plus Xtra 100W E40 1SL/12	110 kWh	A+	16 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	85 V
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	0.95 A	105 V	75 V	94 V

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
92743600	MASTER SON APIA Plus Xtra 100W E40 1SL/12	1.2 A	115 V	85 V	100 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition Time (Min) (Max)
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	50.0 W	180 s
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	75 W	180 s

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition Time (Min) (Max)
92743600	MASTER SON APIA Plus Xtra 100W E40 1SL/12	100.0 W	120 s

General Information (1/2)

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

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

MASTER SON APIA Plus Xtra

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)
92743600	MASTER SON APIA Plus Xtra 100W E40 1SL/12	E40	28000 h	32000 h	40000 h

General Information (2/2)

Order Code	Full Product Name	Life To 5% Failures (Nom)	LSF 16000 h Rated	LSF 20000 h Rated
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	21000 h	98 %	96 %
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	24000 h	99 %	97 %
92743600	MASTER SON APIA Plus Xtra 100W E40 1SL/12	24000 h	99 %	97 %

Light Technical (1/2)

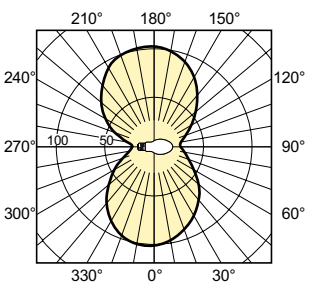
Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Correlated Colour Temperature (Nom)	LLMF 12000 h Rated
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	540	415	1900 K	85 %
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	540	415	1900 K	85 %
92743600	MASTER SON APIA Plus Xtra 100W E40 1SL/12	535	420	1950 K	92 %

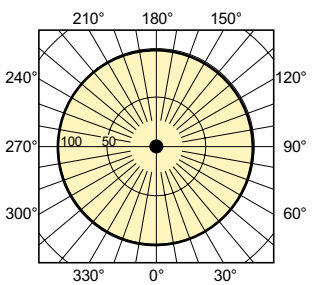
Light Technical (2/2)

Order Code	Full Product Name	LLMF 16000 h Rated	LLMF 2000 h Rated	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)	Ratio Scotopic/ Photopic Lumens
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	84 %	91 %	84 %	88 %	87 %	86 %	76 lm/W	3900 lm	0.50
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	84 %	91 %	84 %	88 %	87 %	86 %	90 lm/W	6750 lm	0.50
92743600	MASTER SON APIA Plus Xtra 100W E40 1SL/12	90 %	98 %	89 %	96 %	95 %	94 %	100 lm/W	10000 lm	0.55

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
92813600	MASTER SON APIA Plus Xtra 50W E27 1SL/24	B70
92817400	MASTER SON APIA Plus Xtra 70W E27 1SL/24	B70
92743600	MASTER SON APIA Plus Xtra 100W E40 1SL/12	B75





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