



The longest life and most reliable solution in road lighting

MASTER SON-T APIA Plus Xtra

High Pressure Sodium lamp with clear tubular outer bulb shape, 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

- Tubular outer bulb
- Ceramic discharge tube with new Active Philips Integrated Antenna (APIA) for an improved and prolonged long and reliable lifetime up to 6 Years Service Lifetime (Xtra)
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- "Plus" concept with high efficacy translated into high light output
- Completely lead-free lamps

Application

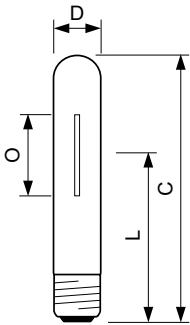
- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities indoor and outdoor

MASTER SON-T APIA Plus Xtra

Versions



Dimensional drawing



Product	D (max)	O	L	C (max)
MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	48 mm	83 mm	175 mm	283 mm
MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	48 mm	65 mm	158 mm	257 mm
MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	48 mm	61 mm	132 mm	210 mm
MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	36 mm	42 mm	102 mm	156 mm
MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	36 mm	35 mm	102 mm	156 mm
MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	48 mm	47 mm	132 mm	210 mm

Controls and Dimming

Dimmable	yes
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General Information

LSF 12000 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)

Light Technical

Colour Code	-
Correlated Colour Temperature (Nom)	1950 K
Colour Rendering Index (Max)	25

Mechanical and Housing

Bulb Finish	Clear (CL)
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	58 kWh	A	12.0 mg
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	83 kWh	A+	12.0 mg
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	110 kWh	A+	16.0 mg
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	169 kWh	A+	16 mg
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	275 kWh	A+	15 mg
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	429 kWh	A++	20 mg

Operating and Electrical (1/2)

MASTER SON-T APIA Plus Xtra

Order Code	Full Product Name	Lamp Current	Voltage (Max)	Voltage (Min)	Voltage (Nom)
		(EM) (Nom)			
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	0.75 A	100 V	70 V	85 V
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	0.975 A	105 V	75 V	90 V
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	1.2 A	115 V	85 V	100 V

Order Code	Full Product Name	Lamp Current	Voltage (Max)	Voltage (Min)	Voltage (Nom)
		(EM) (Nom)			
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	1.8 A	115 V	85 V	100 V
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	3 A	115 V	85 V	100 V
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	4.5 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)
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	53.0 W	30 s
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	75.0 W	30 s
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	100.0 W	120 s

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition
			Time (Min) (Max)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	154.0 W	180 s
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	250.0 W	120 s
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	390 W	120 s

General Information (1/2)

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	E27	25000 h	29500 h	38000 h
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	E27	28000 h	32000 h	40000 h
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	E40	28000 h	32000 h	40000 h

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	E40	32000 h	36500 h	45000 h
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	E40	32000 h	36500 h	45000 h
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	E40	32000 h	36500 h	45000 h

General Information (2/2)

Order Code	Full Product Name	Life To 5%	LSF	LSF	
		Failures (Nom)	16000 h Rated	LSF 2000 h Rated	20000 h Rated
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	21000 h	98 %	99 %	96 %
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	24000 h	99 %	99 %	97 %

Order Code	Full Product Name	Life To 5%	LSF	LSF	
		Failures (Nom)	16000 h Rated	LSF 2000 h Rated	20000 h Rated
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	24000 h	99 %	99 %	97 %
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	28000 h	99 %	100 %	99 %

MASTER SON-T APIA Plus Xtra

Order Code	Full Product Name	Life To 5%	LSF	LSF	
		Failures (Nom)	16000 h Rated	LSF 2000 h Rated	20000 h Rated
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	28000 h	99 %	100 %	99 %

Order Code	Full Product Name	Life To 5%	LSF	LSF	
		Failures (Nom)	16000 h Rated	LSF 2000 h Rated	20000 h Rated
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	28000 h	99 %	100 %	99 %

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	350 °C
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	350 °C
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	450 °C

Order Code	Full Product Name	Bulb Temperature (Max)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	450 °C
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	450 °C
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	450 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	LLMF	LLMF
		Coordinate X (Nom)	Coordinate Y (Nom)	12000 h Rated	16000 h Rated
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	540	420	87 %	86 %
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	540	420	87 %	86 %
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	535	420	92 %	90 %

Order Code	Full Product Name	Chromaticity	Chromaticity	LLMF	LLMF
		Coordinate X (Nom)	Coordinate Y (Nom)	12000 h Rated	16000 h Rated
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	535	420	96 %	95 %
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	530	420	96 %	95 %
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	525	425	96 %	95 %

Light Technical (2/2)

Order Code	Full Product Name	LLMF 2000	LLMF 20000	LLMF 4000	LLMF 6000	LLMF 8000	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)	Ratio
		h Rated	h Rated	h Rated	h Rated	h Rated			Scotopic/Photopic Lumens
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	92 %	86 %	90 %	89 %	88 %	85 lm/W	4500 lm	0.50
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	92 %	86 %	90 %	89 %	88 %	97 lm/W	7300 lm	0.50
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	98 %	89 %	96 %	95 %	94 %	107 lm/W	10700 lm	0.55
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	99 %	94 %	98 %	97 %	96 %	117 lm/W	18000 lm	0.55
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	99 %	94 %	98 %	97 %	96 %	133 lm/W	33300 lm	0.60
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	99 %	94 %	98 %	97 %	96 %	141 lm/W	55000 lm	0.60

Mechanical and Housing

MASTER SON-T APIA Plus Xtra

Order Code	Full Product Name	Bulb Shape
93358100	MASTER SON-T APIA Plus Xtra 50W E27 1SL/12	T35
92290500	MASTER SON-T APIA Plus Xtra 70W E27 1SL/12	T35
92323000	MASTER SON-T APIA Plus Xtra 100W E40 1SL/12	T46
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	T46
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	T46
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	T46

