



Product Description

HORTI

High Pressure Sodium lamp with clear outer bulb, optimized growthlight output and maintenance

Benefits

- Optimized performance for horticultural applications
- High growthlight maintenance safeguards a constant crop quality and quantity over life

Features

- Clear tubular outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- Advanced getter ensures high growthlight maintenance and few early failures
- "GreenPower" concept with optimized micromol output (growth light)
- "Plus" concept with high efficacy translated into high light output
- "Agro" concept with optimized light spectrum

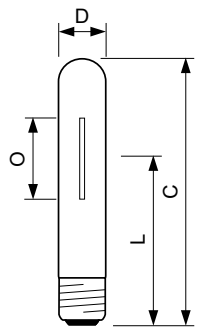
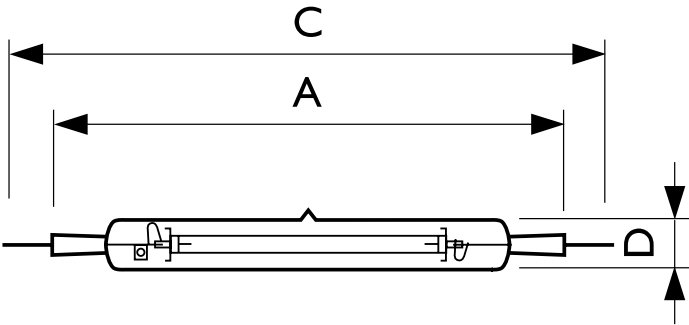
Application

- Horticultural applications, plant irradiation, assimilation lighting

Versions



Dimensional drawing



Product	D (max)	O	C (max)	A
MASTER GreenPower Plus 1000W EL/5X6CT	33.5 mm	147 mm	394 mm	325 mm

Product	D (max)	O	L	C (max)	A
MASTER Agro 400W E40 1SL/12	47 mm	83 mm	175 mm	278 mm	205 mm
MASTER GreenPower 600W 400V E40	47 mm	102 mm	164 mm	279 mm	205 mm

Light Technical

Colour Code	220
Correlated Colour Temperature (Nom)	2000 K

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)
928144609201	MASTER Agro 400W E40 1SL/12	473 kWh	A+	22.0 mg
928159209214	MASTER GreenPower 600W 400V E40	663 kWh	A++	42.0 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	1116 kWh	A++	42.0 mg

Controls and Dimming

Order Code	Full Product Name	Dimmable
928144609201	MASTER Agro 400W E40 1SL/12	no
928159209214	MASTER GreenPower 600W 400V E40	yes

Order Code	Full Product Name	Dimmable
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	yes

Operating and Electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Min)	Power (Rated) (Nom)	Re-ignition Time (Min) (Max)
928144609201	MASTER Agro 400W E40 1SL/12	3.9 A	143 V	113 V	128 V	430.0 W	430.0 W	2 min
928159209214	MASTER GreenPower 600W 400V E40	3.64 A	205 V	175 V	190 V	608.0 W	602.5 W	1 min
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	-	270 V	230 V	250 V	1015.0 W	1000 W	5 min

General Information

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)	Operating Position	System Description
928144609201	MASTER Agro 400W E40 1SL/12	E40	-	9500 h	18000 h	5000 h	UNIVERSAL	External Ignitor (E)
928159209214	MASTER GreenPower 600W 400V E40	E40	14000 h	16000 h	20000 h	12000 h	UNIVERSAL	System 400V
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	K12X30S	10000 h	-	-	-	P	Electronic

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928144609201	MASTER Agro 400W E40 1SL/12	450 °C
928159209214	MASTER GreenPower 600W 400V E40	400 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	700 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Colour Rendering Index (Max)	Colour Rendering Index (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)
928144609201	MASTER Agro 400W E40 1SL/12	520	415	25	20	132.5 lm/W	57000 lm	695 µmol/s
928159209214	MASTER GreenPower 600W 400V E40	526	420	-	30	142 lm/W	85550 lm	1120 µmol/s

Order Code	Full Product Name	Chromaticity	Chromaticity	Colour	Colour	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)
		Coordinate X (Nom)	Coordinate Y (Nom)	Rendering Index (Max)	Rendering Index (Nom)			
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	529	416	-	38	141 lm/W	143000 lm	2100 µmol/s

Light Technical (2/2)

Order Code	Full Product Name	PPF Maintenance	PPF Maintenance	PPF Maintenance	PPF Maintenance	PPF Maintenance	PPF Maintenance
		10000 h	12000 h	2000 h	4000 h	5000 h	6000 h
928144609201	MASTER Agro 400W E40 1SL/12	84 %	-	96 %	-	90 %	-
928159209214	MASTER GreenPower 600W 400V E40	94 %	92 %	100 %	100 %	-	97 %
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	95 %	-	-	98 %	-	-

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928144609201	MASTER Agro 400W E40 1SL/12	T46
928159209214	MASTER GreenPower 600W 400V E40	T46
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	T40

