



# 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

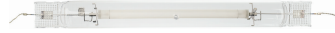
### Features

- 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

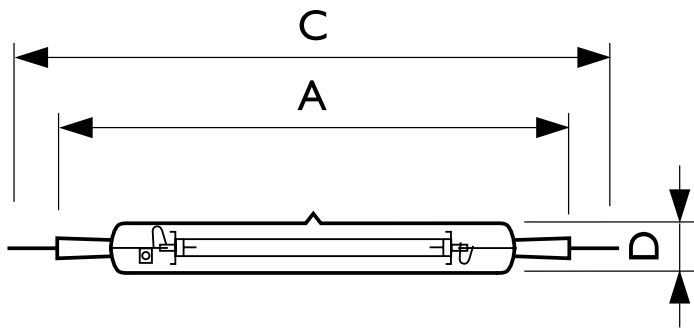
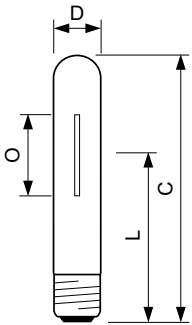
### Application

- Horticultural applications, plant irradiation, assimilation lighting

## Versions



## Dimensional drawing



Product	D (max)	O	L	C (max)	A
MASTER GreenPower CG T 600W E40 1SL/12	47 mm	151 mm	166 mm	279 mm	205 mm
MASTER GreenPower CG T 400W E40 1SL/12	47 mm	118.6 mm	175 mm	283 mm	205 mm

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

### Controls and Dimming

Dimmable Yes

### Light Technical

Colour Code 220

Correlated Colour Temperature (Nom) 2000 K

### Mechanical and Housing

Bulb Finish Clear (CL)

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
20196615	MASTER GreenPower CG T 400W E40 1SL/12	473 kWh	A+	20.0 mg
20202415	MASTER GreenPower CG T 600W E40 1SL/12	680 kWh	A++	30.0 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
93301700	MASTER GreenPower Plus 1000W EL/5X6CT	1116 kWh	A++	42.0 mg

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)
20196615	MASTER GreenPower CG T 400W E40 1SL/12	4.0 A	141 V	111 V	126 V	430.0 W	430.0 W	1 min
20202415	MASTER GreenPower CG T 600W E40 1SL/12	5.45 A	145 V	115 V	130 V	618.0 W	618.0 W	1 min
93301700	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
20196615	MASTER GreenPower CG T 400W E40 1SL/12	E40	21000 h	25000 h	30000 h	18000 h	UNIVERSAL	External Ignitor (E)
20202415	MASTER GreenPower CG T 600W E40 1SL/12	E40	14000 h	20000 h	32000 h	9500 h	UNIVERSAL	External Ignitor (E)
93301700	MASTER GreenPower Plus 1000W EL/5X6CT	K12X30S	10000 h	-	-	-	P	Electronic

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
20196615	MASTER GreenPower CG T 400W E40 1SL/12	450 °C
20202415	MASTER GreenPower CG T 600W E40 1SL/12	400 °C
93301700	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)
20196615	MASTER GreenPower CG T 400W E40 1SL/12	-	-	-	29	136 lm/W	58500 lm	750 µmol/s
20202415	MASTER GreenPower CG T 600W E40 1SL/12	533	432	-	26	142.4 lm/W	88000 lm	1100 µmol/s
93301700	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 10000 h	PPF Maintenance 12000 h	PPF Maintenance 2000 h	PPF Maintenance 4000 h	PPF Maintenance 5000 h	PPF Maintenance 6000 h
20196615	MASTER GreenPower CG T 400W E40 1SL/12	-	94 %	97 %	96 %	-	96 %
20202415	MASTER GreenPower CG T 600W E40 1SL/12	91 %	89 %	97 %	-	93 %	-
93301700	MASTER GreenPower Plus 1000W EL/5X6CT	95 %	-	-	98 %	-	-

**Mechanical and Housing**

Order Code	Full Product Name	Bulb Shape
20196615	MASTER GreenPower CG T 400W E40 1SL/12	T46
20202415	MASTER GreenPower CG T 600W E40 1SL/12	T46
93301700	MASTER GreenPower Plus 1000W EL/5X6CT	T40

