



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

Warnings and Safety

- 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.

Versions

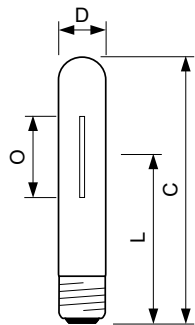
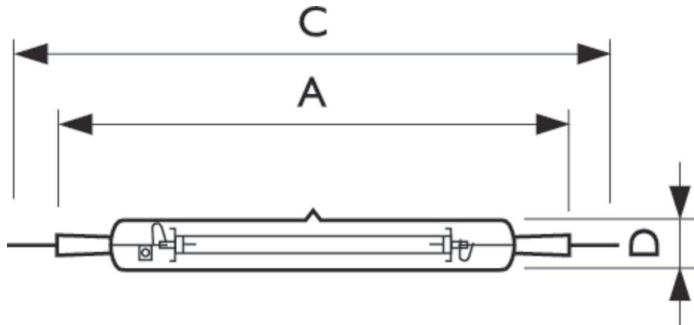


Agro/GreenPower, 250W/400W/600W



GreenPower, 1000W

Dimensional drawing



Product	D (max)	O	C (max)	A
HPS AGRO Plus 1000W DE EL 5X6CT	33.5 mm	147 mm	394 mm	325 mm
HPS AGRO Plus 1000W DE EL 1CT/12	33.5 mm	147 mm	394 mm	325 mm
HPS AGRO Plus 1000W DE EL UNP/50	33.5 mm	147 mm	394 mm	325 mm
MASTER GreenPower Plus 1000W EL/5X6CT	33.5 mm	147 mm	394 mm	325 mm
MASTER GreenPower Xtra 1000W EL UNP/50	33.5 mm	147 mm	394 mm	325 mm
MASTER GreenPower Xtra 1000W EL/5X6CT	33.5 mm	147 mm	394 mm	325 mm
MASTER GreenPower Plus 750W EL UNP/50	33.5 mm	147 mm	394 mm	325 mm

Product	D (max)	O	L	C (max)	A
MASTER GreenPower CG T 400W E40	47 mm	118.6 mm	175 mm	283 mm	205 mm
MASTER GreenPower CG T 400W E40 1SL/12	47 mm	118.6 mm	175 mm	283 mm	205 mm
MASTER GreenPower 600W 480V E40 1SL/12	47 mm	1.81 in	120 mm	168 mm	283 mm 205 mm
MASTER GreenPower Plus 600W EL E40 1SL	47 mm	120 mm	168 mm	283 mm	205 mm
MASTER GreenPower Plus 600W EL E40 UNP	47 mm	120 mm	168 mm	283 mm	205 mm
MASTER GreenPower CG T 250W E40 1SL/12	47 mm	94.2 mm	158 mm	257 mm	170 mm
MASTER Agro 400W E40 1SL/12	47 mm	83 mm	175 mm	278 mm	205 mm
MASTER GreenPower CG T 600W E40 1SL/12	47 mm	151 mm	166 mm	279 mm	205 mm
MASTER GreenPower CG T 600W E40	47 mm	151 mm	166 mm	279 mm	205 mm
MASTER GreenPower 600W 400V E40 1SL/12	47 mm	102 mm	164 mm	279 mm	205 mm
MASTER GreenPower 600W 400V E40	47 mm	102 mm	164 mm	279 mm	205 mm

Light Technical	
Color Code	220
Mechanical and Housing	
Bulb Finish	Clear

Approval and Application

Order Code	Full Product Name	Energy	
		Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
928144609201	MASTER Agro 400W E40 1SL/12	473 kWh	22.0 mg

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928151219214	MASTER GreenPower Plus 600W EL E40 UNP	677 kWh	41.8 mg
928151219227	MASTER GreenPower Plus 600W EL E40 1SL	677 kWh	41.8 mg
928158709214	MASTER GreenPower CG T 400W E40	473 kWh	20.0 mg
928158709227	MASTER GreenPower CG T 400W E40 1SL/12	473 kWh	20.0 mg
928158809214	MASTER GreenPower CG T 600W E40	680 kWh	30.0 mg
928158809227	MASTER GreenPower CG T 600W E40 1SL/12	680 kWh	30.0 mg
928159209214	MASTER GreenPower 600W 400V E40	663 kWh	42.0 mg
928159209227	MASTER GreenPower 600W 400V E40 1SL/12	663 kWh	42.0 mg
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	710 kWh	42 mg

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928197109227	MASTER GreenPower CG T 250W E40 1SL/12	292 kWh	15.1 mg
928152419216	MASTER GreenPower Xtra 1000W EL/5X6CT	1020 kWh	35 mg
928152419230	MASTER GreenPower Xtra 1000W EL UNP/50	1020 kWh	35 mg
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	1116 kWh	42.0 mg
928198205130	MASTER GreenPower Plus 750W EL UNP/50	1020 kWh	35.29 mg
928198405116	HPS AGRO Plus 1000W DE EL 5X6CT	1020 kWh	35.29 mg
928198405127	HPS AGRO Plus 1000W DE EL 1CT/12	1020 kWh	35.29 mg
928198405130	HPS AGRO Plus 1000W DE EL UNP/50	1020 kWh	35.29 mg

Controls and Dimming

Order Code	Full Product Name	Dimmable
928144609201	MASTER Agro 400W E40 1SL/12	No
928151219214	MASTER GreenPower Plus 600W EL E40 UNP	No
928151219227	MASTER GreenPower Plus 600W EL E40 1SL	No
928158709214	MASTER GreenPower CG T 400W E40	Yes
928158709227	MASTER GreenPower CG T 400W E40 1SL/12	Yes
928158809214	MASTER GreenPower CG T 600W E40	Yes
928158809227	MASTER GreenPower CG T 600W E40 1SL/12	Yes
928159209214	MASTER GreenPower 600W 400V E40	Yes
928159209227	MASTER GreenPower 600W 400V E40 1SL/12	Yes

Order Code	Full Product Name	Dimmable
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	Yes
928197109227	MASTER GreenPower CG T 250W E40 1SL/12	Yes
928152419216	MASTER GreenPower Xtra 1000W EL/5X6CT	Yes
928152419230	MASTER GreenPower Xtra 1000W EL UNP/50	Yes
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	Yes
928198205130	MASTER GreenPower Plus 750W EL UNP/50	Yes
928198405116	HPS AGRO Plus 1000W DE EL 5X6CT	Yes
928198405127	HPS AGRO Plus 1000W DE EL 1CT/12	Yes
928198405130	HPS AGRO Plus 1000W DE EL UNP/50	Yes

Operating and Electrical

Order Code	Full Product Name	Lamp Current				Power (Rated) (Min)	Power (Rated) (Nom)	Re-Ignition Time (Min) (Max)
		(EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)			
928144609201	MASTER Agro 400W E40 1SL/12	3.9 A	143 V	113 V	128 V	430.0 W	430.0 W	2 min
928151219214	MASTER GreenPower Plus 600W EL E40 UNP	-	244 V	210 V	228 V	615.0 W	615.0 W	5 min
928151219227	MASTER GreenPower Plus 600W EL E40 1SL	-	244 V	210 V	228 V	615.0 W	615.0 W	5 min
928158709214	MASTER GreenPower CG T 400W E40	4.0 A	141 V	111 V	126 V	430.0 W	430.0 W	1 min
928158709227	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
928158809214	MASTER GreenPower CG T 600W E40	5.45 A	145 V	115 V	130 V	618.0 W	618.0 W	1 min
928158809227	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
928159209214	MASTER GreenPower 600W 400V E40	3.64 A	205 V	175 V	190 V	608.0 W	602.5 W	1 min
928159209227	MASTER GreenPower 600W 400V E40 1SL/12	3.64 A	205 V	175 V	190 V	608.0 W	602.5 W	1 min
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	3.620 A	223 V	193 V	208 V	595.0 W	645.0 W	1 min

Order Code	Full Product Name	Lamp Current				Power (Rated)	Power (Rated)	Re-ignition Time
		(EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	(Min)	(Nom)	(Min) (Max)
928197109227	MASTER GreenPower CG T 250W E40 1SL/12	2.8 A	129 V	99 V	114 V	-	265.0 W	120 min
928152419216	MASTER GreenPower Xtra 1000W EL/5X6CT	-	240 V	200 V	220 V	-	1020.0 W	300 s
928152419230	MASTER GreenPower Xtra 1000W EL UNP/50	-	240 V	200 V	220 V	-	1020.0 W	300 s
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	-	270 V	230 V	250 V	1015.0 W	1000 W	5 min
928198205130	MASTER GreenPower Plus 750W EL UNP/50	-	210 V	180 V	195 V	-	750.0 W	5 min
928198405116	HPS AGRO Plus 1000W DE EL 5X6CT	-	250 V	210 V	230 V	-	1000.0 W	5 min
928198405127	HPS AGRO Plus 1000W DE EL 1CT/12	-	250 V	210 V	230 V	-	1000.0 W	5 min
928198405130	HPS AGRO Plus 1000W DE EL UNP/50	-	250 V	210 V	230 V	-	1000.0 W	5 min

General Information

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%	Life To 5%	Operating	System
			Failures (Nom)	Failures (Nom)	Failures (Nom)	Failures (Nom)	Position	Description
928144609201	MASTER Agro 400W E40 1SL/12	E40	-	9500 h	18000 h	5000 h	UNIVERSAL	External Ignitor
928151219214	MASTER GreenPower Plus 600W EL E40 UNP	E40	10000 h	-	18000 h	-	UNIVERSAL	Electronic
928151219227	MASTER GreenPower Plus 600W EL E40 1SL	E40	10000 h	-	18000 h	-	UNIVERSAL	Electronic
928158709214	MASTER GreenPower CG T 400W E40	E40	21000 h	25000 h	30000 h	18000 h	UNIVERSAL	External Ignitor
928158709227	MASTER GreenPower CG T 400W E40 1SL/12	E40	21000 h	25000 h	30000 h	18000 h	UNIVERSAL	External Ignitor
928158809214	MASTER GreenPower CG T 600W E40	E40	14000 h	20000 h	32000 h	9500 h	UNIVERSAL	External Ignitor
928158809227	MASTER GreenPower CG T 600W E40 1SL/12	E40	14000 h	20000 h	32000 h	9500 h	UNIVERSAL	External Ignitor
928159209214	MASTER GreenPower 600W 400V E40	E40	14000 h	16000 h	20000 h	12000 h	UNIVERSAL	System 400V
928159209227	MASTER GreenPower 600W 400V E40 1SL/12	E40	14000 h	16000 h	20000 h	12000 h	UNIVERSAL	System 400V
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	E40	-	16000 h	-	12000 h	UNIVERSAL	System 480V
928197109227	MASTER GreenPower CG T 250W E40 1SL/12	E40	-	26000 h	32000 h	16000 h	UNIVERSAL	System 230V
928152419216	MASTER GreenPower Xtra 1000W EL/5X6CT	K12X30S	10000 h	-	-	-	P	Electronic
928152419230	MASTER GreenPower Xtra 1000W EL UNP/50	K12X30S	10000 h	-	-	-	P	Electronic
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	K12X30S	10000 h	-	-	-	P	Electronic
928198205130	MASTER GreenPower Plus 750W EL UNP/50	K12X30S	10000 h	-	-	-	P	Electronic
928198405116	HPS AGRO Plus 1000W DE EL 5X6CT	K12X30S	10000 h	-	-	-	P	Electronic
928198405127	HPS AGRO Plus 1000W DE EL 1CT/12	K12X30S	10000 h	-	-	-	P	Electronic
928198405130	HPS AGRO Plus 1000W DE EL UNP/50	K12X30S	10000 h	-	-	-	P	Electronic

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)	Order Code	Full Product Name	Bulb Temperature (Max)
928144609201	MASTER Agro 400W E40 1SL/12	450 °C	928151219227	MASTER GreenPower Plus 600W EL E40 1SL	400 °C
928151219214	MASTER GreenPower Plus 600W EL E40 UNP	400 °C	928158709214	MASTER GreenPower CG T 400W E40	450 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928158709227	MASTER GreenPower CG T 400W E40 1SL/12	450 °C
928158809214	MASTER GreenPower CG T 600W E40	400 °C
928158809227	MASTER GreenPower CG T 600W E40 1SL/12	400 °C
928159209214	MASTER GreenPower 600W 400V E40	400 °C
928159209227	MASTER GreenPower 600W 400V E40 1SL/12	400 °C
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	400 °C
928197109227	MASTER GreenPower CG T 250W E40 1SL/12	450 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928152419216	MASTER GreenPower Xtra 1000W EL/5X6CT	700 °C
928152419230	MASTER GreenPower Xtra 1000W EL UNP/50	700 °C
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	700 °C
928198205130	MASTER GreenPower Plus 750W EL UNP/50	700 °C
928198405116	HPS AGRO Plus 1000W DE EL 5X6CT	700 °C
928198405127	HPS AGRO Plus 1000W DE EL 1CT/12	700 °C
928198405130	HPS AGRO Plus 1000W DE EL UNP/50	700 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color Temperature (Nom)	Color	Color	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
		Coordinate X (Nom)	Coordinate Y (Nom)		Rendering Index (Max)	Rendering Index (Nom)		
928144609201	MASTER Agro 400W E40 1SL/12	0.520	0.415	2000 K	25	20	130 lm/W	56000 lm
928151219214	MASTER GreenPower Plus 600W EL E40 UNP	0.533	0.416	2000 K	-	36	139 lm/W	85500 lm
928151219227	MASTER GreenPower Plus 600W EL E40 1SL	0.533	0.416	2000 K	-	36	139 lm/W	85500 lm
928158709214	MASTER GreenPower CG T 400W E40	-	-	2000 K	-	29	136 lm/W	58000 lm
928158709227	MASTER GreenPower CG T 400W E40 1SL/12	-	-	2000 K	-	29	136 lm/W	58000 lm
928158809214	MASTER GreenPower CG T 600W E40	0.533	0.432	2000 K	-	26	142.4 lm/W	88000 lm
928158809227	MASTER GreenPower CG T 600W E40 1SL/12	0.533	0.432	2000 K	-	26	142.4 lm/W	88000 lm
928159209214	MASTER GreenPower 600W 400V E40	0.526	0.420	2000 K	-	30	142 lm/W	85550 lm
928159209227	MASTER GreenPower 600W 400V E40 1SL/12	0.526	0.420	2000 K	-	30	142 lm/W	85550 lm
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	0.526	0.420	2040 K	-	33	142 lm/W	84500 lm
928197109227	MASTER GreenPower CG T 250W E40 1SL/12	-	-	2000 K	-	29	122 lm/W	32300 lm
928152419216	MASTER GreenPower Xtra 1000W EL/5X6CT	0.537	0.427	2000 K	-	33	155 lm/W	-
928152419230	MASTER GreenPower Xtra 1000W EL UNP/50	0.537	0.427	2000 K	-	33	155 lm/W	-
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	0.529	0.416	2000 K	-	38	141 lm/W	143000 lm
928198205130	MASTER GreenPower Plus 750W EL UNP/50	0.535	0.427	2000 K	-	30	152 lm/W	-
928198405116	HPS AGRO Plus 1000W DE EL 5X6CT	0.537	0.426	2000 K	-	30	155 lm/W	155000 lm
928198405127	HPS AGRO Plus 1000W DE EL 1CT/12	0.537	0.426	2000 K	-	30	155 lm/W	155000 lm
928198405130	HPS AGRO Plus 1000W DE EL UNP/50	0.537	0.426	2000 K	-	30	155 lm/W	155000 lm

Light Technical (2/2)

Order Code	Full Product Name	Photosynthetic Photon Flux (PPF)	PPF Maintenance 10000 h	PPF	PPF	PPF	PPF	PPF
				Maintenance 12000 h	Maintenance 2000 h	Maintenance 4000 h	Maintenance 5000 h	Maintenance 6000 h
928144609201	MASTER Agro 400W E40 1SL/12	700 µmol/s	84 %	-	96 %	-	90 %	-
928151219214	MASTER GreenPower Plus 600W EL E40 UNP	1190 µmol/s	93 %	-	98 %	97 %	-	-
928151219227	MASTER GreenPower Plus 600W EL E40 1SL	1190 µmol/s	93 %	-	98 %	97 %	-	-
928158709214	MASTER GreenPower CG T 400W E40	750 µmol/s	-	94 %	97 %	96 %	-	96 %
928158709227	MASTER GreenPower CG T 400W E40 1SL/12	750 µmol/s	-	94 %	97 %	96 %	-	96 %
928158809214	MASTER GreenPower CG T 600W E40	1100 µmol/s	91 %	89 %	97 %	-	93 %	-
928158809227	MASTER GreenPower CG T 600W E40 1SL/12	1100 µmol/s	91 %	89 %	97 %	-	93 %	-
928159209214	MASTER GreenPower 600W 400V E40	1120 µmol/s	94 %	92 %	100 %	100 %	-	97 %
928159209227	MASTER GreenPower 600W 400V E40 1SL/12	1120 µmol/s	94 %	92 %	100 %	100 %	-	97 %
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	1200 µmol/s	94 %	92 %	99 %	98 %	-	96 %
928197109227	MASTER GreenPower CG T 250W E40 1SL/12	422 µmol/s	-	-	-	-	-	-
928152419216	MASTER GreenPower Xtra 1000W EL/5X6CT	2150 µmol/s	95 %	-	-	98 %	-	-
928152419230	MASTER GreenPower Xtra 1000W EL UNP/50	2150 µmol/s	95 %	-	-	98 %	-	-
928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	2100 µmol/s	95 %	-	-	98 %	-	-
928198205130	MASTER GreenPower Plus 750W EL UNP/50	1500 µmol/s	95 %	-	-	98 %	-	-
928198405116	HPS AGRO Plus 1000W DE EL 5X6CT	2120 µmol/s	95 %	-	-	98 %	-	-
928198405127	HPS AGRO Plus 1000W DE EL 1CT/12	2120 µmol/s	95 %	-	-	98 %	-	-
928198405130	HPS AGRO Plus 1000W DE EL UNP/50	2120 µmol/s	95 %	-	-	98 %	-	-

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape	Order Code	Full Product Name	Bulb Shape
928144609201	MASTER Agro 400W E40 1SL/12	T46	928197109227	MASTER GreenPower CG T 250W E40 1SL/12	T46
928151219214	MASTER GreenPower Plus 600W EL E40 UNP	T40	928152419216	MASTER GreenPower Xtra 1000W EL/5X6CT	T40
928151219227	MASTER GreenPower Plus 600W EL E40 1SL	T40	928152419230	MASTER GreenPower Xtra 1000W EL UNP/50	T40
928158709214	MASTER GreenPower CG T 400W E40	T46	928196305116	MASTER GreenPower Plus 1000W EL/5X6CT	T40
928158709227	MASTER GreenPower CG T 400W E40 1SL/12	T46	928198205130	MASTER GreenPower Plus 750W EL UNP/50	T40
928158809214	MASTER GreenPower CG T 600W E40	T46	928198405116	HPS AGRO Plus 1000W DE EL 5X6CT	T40
928158809227	MASTER GreenPower CG T 600W E40 1SL/12	T46	928198405127	HPS AGRO Plus 1000W DE EL 1CT/12	T40
928159209214	MASTER GreenPower 600W 400V E40	T46	928198405130	HPS AGRO Plus 1000W DE EL UNP/50	T40
928159209227	MASTER GreenPower 600W 400V E40 1SL/12	T46			
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	T46			

