



SL.250W.U46.VRD

SUNMASTER®
High Pressure Sodium Lamp
E40 Tubular

PRODUCT SPECIFICATION BULLETIN

Lamp Type	Sunmaster Grow Lamps
Product Number	00236
Control Gear	HPS Ballast + Ignitor / Electronic
Performance Data	
Initial Lumens (Lumens @ 100 hours)	33000
PAR Watts	85
Rated Life (Hrs. @10Hr. /Start)	20000+
Correlated Colour Temperature K	2000
Chromaticity (CIE - X,Y)	530 420
Colour Rendering Index (CRI)	23
Typical Warm Up Time (Minutes)	5
Typical Hot Restart Time (Minutes)	1
Burning Position	Universal

Physical Data / Requirements

Base Designation	E40
Bulb Designation	T46
Bulb Diameter (mm)	48
Max. Overall Length (mm)	260
Light Centre Length (mm)	158
Effective Arc Length (mm)	64.3
Max. Base Temperature (°C)	250
Max. Bulb Temperature (°C)	400
Luminaire Type	Open/Enclosed
Socket Pulse Rating (KV)	5

Electrical Data / Requirements

Lamp Wattage (W)	250
Operating Voltage (V)	100
Operating Current (Amps)	3.0
Min. Open Circuit Voltage (RMS)	198
Min.-Max. Starting Pulse (Peak V)	3800-4500
Min. Pulse Width @ 2700 Volts (µ sec)	1
Min. Pulse Rate Per ½ Cycle	1
Pulse Position (Min. % OCV Peak)	60-90 240-270

Revision:

Notes

The specification contains data about typical performance on 50Hz sine wave ballast at nominal power.
Actual values may depend on ballast and applications.

Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives.



SL.400W.U46.VRD

SUNMASTER®
High Pressure Sodium Lamp
E40 Elliptical

PRODUCT SPECIFICATION BULLETIN

Lamp Type	Sunmaster Grow Lamps
Product Number	10033
Control Gear	HPS Ballast + Ignitor / Electronic
Performance Data	
Initial Lumens (Lumens @ 100 hours)	55000
PAR Watts	140
Rated Life (Hrs. @10Hr. /Start)	24000+
Correlated Colour Temperature K	2100
Chromaticity (CIE - X,Y)	512 420
Colour Rendering Index (CRI)	22
Typical Warm Up Time (Minutes)	3-4
Typical Hot Restart Time (Minutes)	1
Burning Position	Universal

Physical Data / Requirements

Base Designation	E40
Bulb Designation	E18
Bulb Diameter (mm)	57
Max. Overall Length (mm)	248
Light Centre Length (mm)	146
Effective Arc Length (mm)	85
Max. Base Temperature (°C)	210
Max. Bulb Temperature (°C)	400
Luminaire Type	Open/Enclosed
Socket Pulse Rating (KV)	4

Electrical Data / Requirements

Lamp Wattage (W)	400
Operating Voltage (V)	100
Operating Current (Amps)	4.5
Min. Open Circuit Voltage (RMS)	198
Min.-Max. Starting Pulse (Peak V)	3800-4500
Min. Pulse Width @ 2700 Volts (µ sec)	1
Min. Pulse Rate Per ½ Cycle	1
Pulse Position (Min. % OCV Peak)	60-90 240-270

Revision:

Notes

The specification contains data about typical performance on 50Hz sine wave ballast at nominal power.
Actual values may depend on ballast and applications.

Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives.



SL.600.U46.VRD

SUNMASTER®
High Pressure Sodium Lamp
E40 Tubular

PRODUCT SPECIFICATION BULLETIN

Lamp Type	Sunmaster Grow Lamps
Product Number	10034
Control Gear	HPS Ballast + Ignitor
Performance Data	
Initial Lumens (Lumens @ 100 hours)	90000
PAR Watts	215
Rated Life (Hrs. @10Hr. /Start)	24000+ V/H
Correlated Colour Temperature K	2100
Chromaticity (CIE - X,Y)	530 415
Colour Rendering Index (CRI)	22
Typical Warm Up Time (Minutes)	3-5
Typical Hot Restart Time (Minutes)	1
Burning Position	Universal

Physical Data / Requirements

Base Designation	E40
Bulb Designation	T46
Bulb Diameter (mm)	46
Max. Overall Length (mm)	285
Light Centre Length (mm)	175
Effective Arc Length (mm)	106
Max. Base Temperature (°C)	250
Max. Bulb Temperature (°C)	400
Luminaire Type	Open/Enclosed
Socket Pulse Rating (KV)	5

Electrical Data / Requirements

Lamp Wattage (W)	600
Operating Voltage (V)	115
Operating Current (Amps)	5.8
Min. Open Circuit Voltage (RMS)	198
Min.-Max. Starting Pulse (Peak V)	3800-4500
Min. Pulse Width @ 2700 Volts (µ sec)	1
Min. Pulse Rate Per ½ Cycle	1
Pulse Position (Min. % OCV Peak)	60-90 240-270

Revision:

Notes

The specification contains data about typical performance on 50Hz sine wave ballast at nominal power.
Actual values may depend on ballast and applications.

Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives.



SL.1000W.U65.VRD

SUNMASTER®
High Pressure Sodium Lamp
E40 Tubular

PRODUCT SPECIFICATION BULLETIN

Lamp Type	Sunmaster Grow Lamps
Product Number	00011
Control Gear	HPS Ballast + Ignitor
Performance Data	
Initial Lumens (Lumens @ 100 hours)	150000
PAR Watts	358
Rated Life (Hrs. @10Hr. /Start)	24000
Correlated Colour Temperature K	2100
Chromaticity (CIE - X,Y)	512 420
Colour Rendering Index (CRI)	22
Typical Warm Up Time (Minutes)	3-4
Typical Hot Restart Time (Minutes)	1
Burning Position	Universal

Physical Data / Requirements

Base Designation	E40
Bulb Designation	T65
Bulb Diameter (mm)	65
Max. Overall Length (mm)	372
Light Centre Length (mm)	222
Effective Arc Length (mm)	230
Max. Base Temperature (°C)	210
Max. Bulb Temperature (°C)	400
Luminaire Type	Open/Enclosed
Socket Pulse Rating (KV)	5

Electrical Data / Requirements

Lamp Wattage (W)	1000
Operating Voltage (V)	110
Operating Current (Amps)	10.3
Min. Open Circuit Voltage (RMS)	198
Min.-Max. Starting Pulse (Peak V)	3800-4500
Min. Pulse Width @ 2700 Volts (µ sec)	1
Min. Pulse Rate Per ½ Cycle	1
Pulse Position (Min. % OCV Peak)	60-90 240-270

Revision:

Notes

The specification contains data about typical performance on 50Hz sine wave ballast at nominal power.
Actual values may depend on ballast and applications.

Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives.