PHILIPS

Lighting

High performance, low total cost of ownership

Pulse Start Metal Halide Standard

Philips Pulse Start Metal Halide Lamps offer an optimized metal halide system for greater efficiency and lumen maintenance.

Benefits

- Flexible lighting solution - available in various bases and wattages.
- Long Life when compared to switch start metal halide (for 175W and 250W versions).

Features

- Up to 25% increase in maintained light output over standard metal halide.
- Increased efficacy (up to 120 lpw) equals low total cost of ownership.
- Up to 50% faster warm-up and restrike time.
- Up to 50% increase in life when compared to switch start metal halide (for 175W and 250W versions).
- ED-37 base available in 350 and 400 watts base up and horizontal operations as well as COATED / BT-37 available in 750 and 1000 watt base up operation and 750 watt horizontal operation / ED-28 available in 175, 200, 250, 320, and 400 watts base up or horizontal operations. 175 and 320 watts of the ED-28 base are also available in COATED.

Application

- Ideal for industrial and retail high/low bays and parking lots.

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Warnings and Safety

- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)

Versions

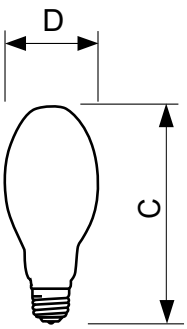
E26/E27, Clear

Single Contact Mogul Screw BT37 Clear CCT of 4000K

E39, ED-28, Clear

350 W Single Contact Mogul Screw ED-37 Clear CCT of 4000K

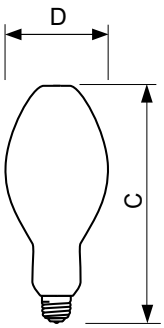
Dimensional drawing



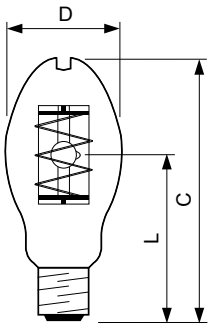
Product	D	C (max)
MS175/BU/PS 12PK	3.5 in	8.313 in
MS250/BU/PS 12PK	3.5 in	8.313 in
Pulse Start MH Std 400W/640 CW Mog ED28 1SL	3.5 in	8.3 in
Pulse Start MH Std 400W/640 Mog ED28 1WR	3.5 in	8.3 in

Pulse Start Metal Halide Standard

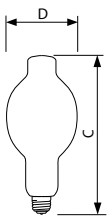
Dimensional drawing



Product	D	C (max)
MS400/U/PS 6PK	4.625 in	11.5 in



Product	D (max)	L (min)	C (max)
MH 100W/640 E26 CL 1SL/24	56 mm	83 mm	138 mm



Product	D	C (max)
MS1000/BU/BT37/PS 6PK		292.0 mm

Mechanical and housing

Bulb Finish	Clear

Approval and application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
137513	MH 100W/640 E26 CL 1SL/24	110 kWh	-	10.2 mg
360198	MS1000/BU/BT37/PS 6PK	-	-	151 mg
276626	MS175/BU/PS 12PK	-	-	23.5 mg
276618	MS250/BU/PS 12PK	-	-	32 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
232520	MS400/BU/ED28/PS 12PK	-	-	50 mg
232538	MS400/HOR/ED28/PS 12PK	-	-	50 mg
232835	MS400/U/PS 6/1	-	42.0 mg	-

Controls and dimming

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Order Code	Full Product Name	Dimmable
137513	MH 100W/640 E26 CL 1SL/24	No
360198	MS1000/BU/BT37/PS 6PK	-
276626	MS175/BU/PS 12PK	-
276618	MS250/BU/PS 12PK	-

Order Code	Full Product Name	Dimmable
232520	MS400/BU/ED28/PS 12PK	-
232538	MS400/HOR/ED28/PS 12PK	-
232835	MS400/U/PS 6/1	-

Operating and electrical (1/2)

Order Code	Full Product Name	Lamp Current (Nom)	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Max)	Power (Rated) (Min)
137513	MH 100W/640 E26 CL 1SL/24	-	1.1 A	110 V	90 V	100 V	- W	- W
360198	MS1000/BU/BT37/PS 6PK	4.1 A	-	-	-	836 V	-	-
276626	MS175/BU/PS 12PK	1.5 A	-	147 V	117 V	132 V	-	-
276618	MS250/BU/PS 12PK	2 A	-	147 V	119 V	133 V	-	-
232520	MS400/BU/ED28/PS 12PK	3.2 A	-	150 V	120 V	135 V	-	-
232538	MS400/HOR/ED28/PS 12PK	3.2 A	-	150 V	120 V	135 V	-	-
232835	MS400/U/PS 6/1	3.25 A	-	150 V	120 V	135 V	-	-

Operating and electrical (2/2)

Order Code	Full Product Name	Power (Nom)	Re-Ignition Time (Min) (Max)
137513	MH 100W/640 E26 CL 1SL/24	106 W	-
360198	MS1000/BU/BT37/PS 6PK	1000 W	15 min
276626	MS175/BU/PS 12PK	-	10 min
276618	MS250/BU/PS 12PK	-	4 min

Order Code	Full Product Name	Power (Nom)	Re-Ignition Time (Min) (Max)
232520	MS400/BU/ED28/PS 12PK	-	6 min
232538	MS400/HOR/ED28/PS 12PK	-	6 min
232835	MS400/U/PS 6/1	-	10 min

General information

Order Code	Full Product Name	Cap-Base	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)	Main Application	Operating Position	System Description
137513	MH 100W/640 E26 CL 1SL/24	E26	15000 h	2000 h	-	Base Up	na
360198	MS1000/BU/BT37/PS 6PK	E39	-	-	General Lighting (G)	Base Up +/- 10 D	BU
276626	MS175/BU/PS 12PK	E39	15000 h	-	General Lighting (G)	Base Up +/- 15 D	Pulse Start
276618	MS250/BU/PS 12PK	E39	15000 h	-	General Lighting (G)	Base Up +/- 15 D	Pulse Start
232520	MS400/BU/ED28/PS 12PK	E39	20000 h	-	General Lighting (G)	Base Up +/- 15 D	Pulse Start
232538	MS400/HOR/ED28/PS 12PK	E39	20000 h	-	General Lighting (G)	Horizontal +/- 15 D	Pulse Start
232835	MS400/U/PS 6/1	E39	20000 h	-	General Lighting (G)	Universal	Pulse Start

Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
137513	MH 100W/640 E26 CL 1SL/24	450 °C
360198	MS1000/BU/BT37/PS 6PK	-
276626	MS175/BU/PS 12PK	400 °C
276618	MS250/BU/PS 12PK	400 °C

Order Code	Full Product Name	Bulb Temperature (Max)
232520	MS400/BU/ED28/PS 12PK	450 °C
232538	MS400/HOR/ED28/PS 12PK	450 °C
232835	MS400/U/PS 6/1	400 °C

Light technical (1/2)

Pulse Start Metal Halide Standard

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)
137513	MH 100W/640 E26 CL 1SL/24	385	390	640	Cool White (CW)	4000 K	65	55 %
360198	MS1000/BU/BT37/PS 6PK	0.385	0.390	640	-	4000 K	65	-
276626	MS175/BU/PS 12PK	395	390	635	White (WH)	-	62	-
276618	MS250/BU/PS 12PK	374	392	645	Cool White (CW)	4300 K	65	-
232520	MS400/BU/ED28/PS 12PK	385	390	640	Cool White (CW)	4000 K	68	-
232538	MS400/HOR/ED28/PS 12PK	385	390	640	Cool White (CW)	4000 K	68	-
232835	MS400/U/PS 6/1	385	390	640	Cool White (CW)	4000 K	65	-

Light technical (2/2)

Order Code	Full Product Name	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
137513	MH 100W/640 E26 CL 1SL/24	70 %	62 %	-	85 lm/W	-	7200 lm	9000 lm
360198	MS1000/BU/BT37/PS 6PK	-	-	-	-	96000 lm	-	-
276626	MS175/BU/PS 12PK	-	-	82.3 lm/W	91 lm/W	11200 lm	14400 lm	16000 lm
276618	MS250/BU/PS 12PK	-	-	85.5 lm/W	95 lm/W	16625 lm	21375 lm	23750 lm
232520	MS400/BU/ED28/PS 12PK	-	-	105 lm/W	110 lm/W	-	42000 lm	44000 lm
232538	MS400/HOR/ED28/PS 12PK	-	-	97.5 lm/W	100 lm/W	-	39000 lm	40000 lm
232835	MS400/U/PS 6/1	-	-	-	90 lm/W	30000 lm	-	40000 lm

Mechanical and housing

Order Code	Full Product Name	Bulb Material	Bulb Shape
137513	MH 100W/640 E26 CL 1SL/24	-	ED17
360198	MS1000/BU/BT37/PS 6PK	Hard Glass	BT37
276626	MS175/BU/PS 12PK	Hard Glass	ED28
276618	MS250/BU/PS 12PK	Hard Glass	ED28

Order Code	Full Product Name	Bulb Material	Bulb Shape
232520	MS400/BU/ED28/PS 12PK	Hard Glass	ED28
232538	MS400/HOR/ED28/PS 12PK	Hard Glass	ED28
232835	MS400/U/PS 6/1	Hard Glass	ED37

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