



# Switch Start Metal Halide Standard

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High performance, Long life and Superior light quality A compact, energy efficient metal halide lamp that provides crisp, sparkling light with long life and high efficiency.

### Features

- Long life up to 20,000 hours for 360 and 400 watt lamps.
- Up to 100 lumens per watt.

### Application

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

### 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)

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## Versions



E26, BD-17, Clear



E26, BD-17, Coated



ED17, ED28, Clear



E39/E40/41, ED-37, Clear

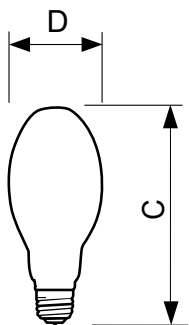
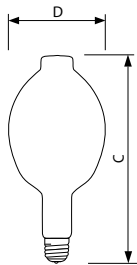


E39/E40/41, BT-56, Clear



E39, BT-37, Clear

## Dimensional drawing

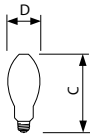
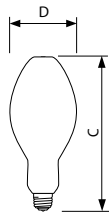
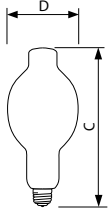


Product
MH1000/U 6PK
MH1500/U 6PK

Product
MH150/U/M 12PK
MH400/U/ED28 12PK
MH250/U 12PK
MH250/U UPC 3PK
MH175/U 12PK
MH175/U UPC 3PK
MH400/U/ED28 3PK

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## Dimensional drawing



Product
MH1000/U/BT37 6PK

Product	D	C (max)
MH400/U 6PK	4.625 in	11.5 in

Product
MH175/U/M 12PK
MH175/C/U/M 12PK

Approval and Application	
Energy Saving Product	Not Applicable
Light Technical	
Color Code	640
Mechanical and Housing	
Bulb Material	Hard Glass

## Approval and Application

Order Code	Full Product Name	Mercury (Hg)	Mercury (Hg)	Picogram Per Lumen Hour
		Content (Max)	Content (Nom)	
928601122311	MH175/U/M 12PK	24.0 mg	-	-

Order Code	Full Product Name	Mercury (Hg)	Mercury (Hg)	Picogram Per Lumen Hour
		Content (Max)	Content (Nom)	
928601122403	MH175/C/U/M 12PK	24.0 mg	-	-

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Order Code	Full Product Name	Mercury (Hg)		Picogram Per Lumen Hour
		Content (Max)	Content (Nom)	
928601150312	MH175/U UPC 3PK	-	28 mg	255.1 pg/lm.h
928601150313	MH175/U 12PK	-	28 mg	255.1 pg/lm.h
928601150812	MH250/U UPC 3PK	-	33 mg	215.1 pg/lm.h
928601150813	MH250/U 12PK	-	33 mg	215.1 pg/lm.h
928601151303	MH400/U/ED28 12PK	52.0 mg	-	-
928601151304	MH400/U/ED28 3PK	52.0 mg	-	-

Order Code	Full Product Name	Mercury (Hg)		Picogram Per Lumen Hour
		Content (Max)	Content (Nom)	
928601179801	MH150/U/M 12PK	-	23 mg	199.4 pg/lm.h
928601172301	MH400/U 6PK	-	38 mg	102.6 pg/lm.h
928601179401	MH1500/U 6PK	-	228.0 mg	-
928601179901	MH1000/U 6PK	151.0 mg	-	176 pg/lm.h
928601179701	MH1000/U/BT37 6PK	-	151.0 mg	176 pg/lm.h

### Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-Ignition Time (Min) (Max)
928601122311	MH175/U/M 12PK	1.5 A	147 V	117 V	132 V	15 min
928601122403	MH175/C/U/M 12PK	1.5 A	147 V	117 V	132 V	15 min
928601150312	MH175/U UPC 3PK	1.5 A	147 V	117 V	132 V	8 min
928601150313	MH175/U 12PK	1.5 A	147 V	117 V	132 V	8 min
928601150812	MH250/U UPC 3PK	2.1 A	148 V	118 V	133 V	8 min
928601150813	MH250/U 12PK	2.1 A	148 V	118 V	133 V	8 min
928601151303	MH400/U/ED28 12PK	3.25 A	150 V	120 V	135 V	12 min
928601151304	MH400/U/ED28 3PK	3.25 A	150 V	120 V	135 V	12 min
928601179801	MH150/U/M 12PK	1.5 A	120 V	100 V	110 V	15 min
928601172301	MH400/U 6PK	3.25 A	150 V	120 V	135 V	12 min
928601179401	MH1500/U 6PK	6.2 A	283 V	253 V	268 V	15 min
928601179901	MH1000/U 6PK	4.1 A	288 V	238 V	263 V	15 min
928601179701	MH1000/U/BT37 6PK	4.1 A	-	-	263 V	15 min

### General Information

Order Code	Full Product Name	Cap-Base	Life To 50%		Operating Position
			Failures (Nom)	Main Application	
928601122311	MH175/U/M 12PK	E26	10000 h	General Lighting (G)	UNIVERSAL
928601122403	MH175/C/U/M 12PK	E26	10000 h	General Lighting (G)	UNIVERSAL
928601150312	MH175/U UPC 3PK	E39	10000 h	General and Street Lighting	UNIVERSAL
928601150313	MH175/U 12PK	E39	10000 h	General and Street Lighting	UNIVERSAL
928601150812	MH250/U UPC 3PK	E39	10000 h	General and Street Lighting	UNIVERSAL
928601150813	MH250/U 12PK	E39	10000 h	General and Street Lighting	UNIVERSAL
928601151303	MH400/U/ED28 12PK	E39	20000 h	General Lighting (G)	UNIVERSAL

Order Code	Full Product Name	Cap-Base	Life To 50%		Operating Position
			Failures (Nom)	Main Application	
928601151304	MH400/U/ED28 3PK	E39	20000 h	General Lighting (G)	UNIVERSAL
928601179801	MH150/U/M 12PK	E26	10000 h	General Lighting (G)	UNIVERSAL
928601172301	MH400/U 6PK	E39	20000 h	General Lighting (G)	UNIVERSAL
928601179401	MH1500/U 6PK	E39	6000 h	General Lighting (G)	H15
928601179901	MH1000/U 6PK	E39	12000 h	General Lighting (G)	UNIVERSAL
928601179701	MH1000/U/BT37 6PK	E39	12000 h	General Lighting (G)	UNIVERSAL

### Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928601122311	MH175/U/M 12PK	450 °C
928601122403	MH175/C/U/M 12PK	400 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928601150312	MH175/U UPC 3PK	400 °C
928601150313	MH175/U 12PK	400 °C

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Order Code	Full Product Name	Bulb Temperature (Max)
928601150812	MH250/U UPC 3PK	400 °C
928601150813	MH250/U 12PK	400 °C
928601151303	MH400/U/ED28 12PK	400 °C
928601151304	MH400/U/ED28 3PK	400 °C
928601179801	MH150/U/M 12PK	400 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928601172301	MH400/U 6PK	400 °C
928601179401	MH1500/U 6PK	430 °C
928601179901	MH1000/U 6PK	430 °C
928601179701	MH1000/U/BT37 6PK	450 °C

### Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Color Designation	Correlated Color Temperature (Nom)	Color	Lumen	Lumen Maintenance - 40% Life
		Coordinate X (Nom)	Coordinate Y (Nom)			Rendering Index (Nom)	Maintenance - 10% Life	
928601122311	MH175/U/M 12PK	0.385	0.390	Cool White (CW)	4000 K	65	-	-
928601122403	MH175/C/U/M 12PK	0.395	0.390	Cool White (CW)	3700 K	65	-	65 %
928601150312	MH175/U UPC 3PK	0.375	0.400	Cool White (CW)	4000 K	65	90 %	68 %
928601150313	MH175/U 12PK	0.375	0.400	Cool White (CW)	4000 K	65	90 %	68 %
928601150812	MH250/U UPC 3PK	0.385	0.395	Cool White (CW)	4000 K	65	-	-
928601150813	MH250/U 12PK	0.385	0.395	Cool White (CW)	4000 K	65	-	-
928601151303	MH400/U/ED28 12PK	0.390	0.400	Cool White (CW)	4000 K	57	-	-
928601151304	MH400/U/ED28 3PK	0.390	0.400	Cool White (CW)	4000 K	57	-	-
928601179801	MH150/U/M 12PK	0.385	0.390	White (WH)	4000 K	65	-	65 %
928601172301	MH400/U 6PK	0.385	0.395	Cool White (CW)	3900 K	65	-	65 %
928601179401	MH1500/U 6PK	0.385	0.390	White (WH)	4000 K	65	-	65 %
928601179901	MH1000/U 6PK	0.385	0.390	White (WH)	4000 K	65	-	65 %
928601179701	MH1000/U/BT37 6PK	0.385	0.390	Cool White (CW)	4000 K	65	-	65 %

### Light Technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (rated)	Luminous Efficacy (rated)	Design Mean Lumens	Luminous Flux (Rated)	Luminous Flux (Rated)	Order Code	Full Product Name	Luminous Efficacy (rated)	Luminous Efficacy (rated)	Design Mean Lumens	Luminous Flux (Rated)	Luminous Flux (Rated)
		(Min)	(Nom)		(Min)	(Nom)			(Min)	(Nom)		(Min)	(Nom)
928601122311	MH175/U/M 12PK	70 lm/W	80 lm/W	9100 lm	-	14000 lm	928601151304	MH400/U/ED28 3PK	80 lm/W	90 lm/W	24000 lm	32000 lm	36000 lm
928601122403	MH175/C/U/M 12PK	72 lm/W	80 lm/W	8380 lm	12600 lm	13300 lm	928601179801	MH150/U/M 12PK	-	90 lm/W	8775 lm	-	13500 lm
928601150312	MH175/U UPC 3PK	70 lm/W	84 lm/W	8775 lm	12250 lm	14700 lm	928601172301	MH400/U 6PK	85 lm/W	97.5 lm/W	25350 lm	34000 lm	39000 lm
928601150313	MH175/U 12PK	70 lm/W	84 lm/W	8775 lm	12250 lm	14700 lm	928601179401	MH1500/U 6PK	-	113 lm/W	136000 lm	-	170000 lm
928601150812	MH250/U UPC 3PK	76.5 lm/W	85 lm/W	13500 lm	19125 lm	21250 lm	928601179901	MH1000/U 6PK	-	110 lm/W	71500 lm	-	110000 lm
928601150813	MH250/U 12PK	76.5 lm/W	85 lm/W	13500 lm	19125 lm	21250 lm	928601179701	MH1000/U/BT37 6PK	-	110 lm/W	71500 lm	-	110000 lm
928601151303	MH400/U/ED28 12PK	80 lm/W	90 lm/W	24000 lm	32000 lm	36000 lm							

### Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
928601122311	MH175/U/M 12PK	Clear	BD-17
928601122403	MH175/C/U/M 12PK	Coated glass	BD-17

Order Code	Full Product Name	Bulb Finish	Bulb Shape
928601150312	MH175/U UPC 3PK	Clear	ED-28
928601150313	MH175/U 12PK	Clear	ED-28

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Order Code	Full Product Name	Bulb Finish	Bulb Shape
928601150812	MH250/U UPC 3PK	Clear	ED-28
928601150813	MH250/U 12PK	Clear	ED-28
928601151303	MH400/U/ED28 12PK	Clear	ED-28
928601151304	MH400/U/ED28 3PK	Clear	ED-28
928601179801	MH150/U/M 12PK	Clear	ED-17

Order Code	Full Product Name	Bulb Finish	Bulb Shape
928601172301	MH400/U 6PK	Clear	ED-37
928601179401	MH1500/U 6PK	Clear	BT-56
928601179901	MH1000/U 6PK	Clear	BT-56
928601179701	MH1000/U/BT37 6PK	Clear	BT-37

