METALARC® PULSE START - E17 & PAR38 Low Wattage Metal Halide Lamps for Open and Enclosed Fixtures



SYLVANIA METALARC PRO-TECH® and METALARC PULSE START low wattage E17 and PAR38 lamp's premium performance provides opportunities for higher maintained illumination levels and substantial energy savings.

The METALARC PRO-TECH lamp design enhances safety in open or enclosed fixtures and includes a shroud around the arc tube and, in some cases, a thicker walled outer jacket. In addition, METALARC PRO-TECH lamps have a reduction in UV output compared to standard metal halide lamps. The use of open fixtures means more light output over life and lower maintenance costs because there are no lenses to gather dirt and dust, thus extending lamp replacement procedures.

The METALARC enclosed rated E17 lamps provide a solution for enclosed rated fixtures and contain all the benefits of the pulse start technology including reduction in color shift over the life of the lamp, better lumen maintenance and potentially longer life.

Key Features & Benefits

- Full range of wattages from 50 to 175 watts
 - 70W, 100W, 150W and 175W lamps available for enclosed rated fixtures
- · Medium base lamps
- Universal operating position
- Up to 20,000 hours average rated life
- · Available in clear and coated
- PAR38 version available to provide high illuminance levels for featured displays and architectural highlighting

- METALARC PRO-TECH design glass shroud for containment and UV-reduction - suitable for use in open or enclosed fixtures
 - NEC 2005 and later revisions require new construction and/ or major renovations
 - To use open rated lamps with EX39 sockets in open fixtures,
 - Fixtures with a lens
 - Lower maintenance costs
 - Lower initial luminaire cost
 - Reduced luminaire dirt depreciation
 - Dedicated exclusionary medium socket for 50-150 watts with open rated lamps
 - Retrofits into standard sockets

OSRAM SYLVANIA offers the most comprehensive lamp and ballast system solutions. For compatible SYLVANIA ballasts please refer to our Lamp and Ballast Catalog or contact your local SYLVANIA representative.

Product Offering

Wattages	Outer Jacket	Fixture
50, 70, 100, 150	Clear and Coated	Open or Enclosed Rated
70, 100, 150, 175	Clear and Coated	Enclosed Rated Only

Application Information

Applications

- · Ambient lighting for industrial and retail
- Flood lighting
- · Lobbies, atriums
- Malls
- Parking lots
- Security lighting

Sockets

- 1. To prevent relamping an open fixture with standard metal halide lamps, a special socket is available with open fixtures for all lamp types.
- 2. Operating orientation: 50-150W operate in the universal orientation. 175W is for base up only applications.

Fixture

Consult your local fixture agent for available fixtures.



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Fixture Description:	Туре
Project/Job:	
SYLVANIA lamp:	
SYLVANIA ballast:	
Notes:	

Ordering Information

METALARC PRO-TECH® PULSE START Average Rated ANSI Item Ordering Life (hr.)1 Initial Mean Color Abbreviation Watts **Finish** Vertical HOR CRI Number Bulb Base Code Lumens Lumens Temp. 64587 MP50/U/MED 50 Clear E17 M110/0 20,000 10,000 3,450 1,600 3000K 70 64588 MP50/C/U/MED 50 Coated E17 Med. M110/0 20,000 10,000 3,000 1,350 2900K 70 64547 MP70/U/MED 70 15,000 10,000 5,200 2,750 3000K Clear E17 M98/0 75 Med. 64546 MP70/C/U/MED 70 Coated F17 Med M98/0 15,000 10,000 4,700 2,600 2900K 75 64625 MPD70/U/MED/840 70 Clear E17 Med. M98/0 7,500 6,000 5,500 4,000 4200K 80 64417 MP100/U/MED 100 Clear E17 Med. M90/0 15,000 10,000 8,500 4,800 3000K 75 64418 MP100/C/U/MED 100 Coated E17 Med. M90/0 15,000 10,000 7,900 3,900 2900K 75 100 8,400 5,800 4200K 64426 MPD100/U/MED/840 Clear F17 Med M90/0 7,500 6,000 82 64433 MPD100/C/U/MED/840 100 Coated E17 Med. M90/0 7,500 6,000 7,700 5,500 4000K 82 64402 MP150/U/MED 150 Clear E17 Med. M102/0 15,000 10,000 12,900 6,550 3000K 75 64406 MP150/C/U/MED 150 Coated E17 Med. M102/0 15,000 10,000 11,000 5,300 2900K 73

METALARC® PULSE START (Rated for enclosed fixtures)

							Average Rated				
ltem Number	Ordering Abbreviation	Watts	Finish	Bulb	Base	ANSI Code	Life (hr.)¹ Vertical	Initial Lumens	Mean Lumens	Color Temp.	CRI
	ADDIEVIALIOII	watts	FIIIISII	Duin	Dase		VELLIGAL	Luillella	Luillella	ieilip.	UNI
64836	M70/U/MED	70	Clear	E17	Med.	M98/E	12,000	5,600	3,300	4000K	65
64818	M100/U/MED	100	Clear	E17	Med.	M90/E	12,000	8,500	4,675	4000K	65
64785	M150/U/MED	150	Clear	E17	Med.	M102/E	12,000	14,000	11,000	4300K	65
64171	MS175/PS/BU-ONLY/MED	175	Clear	E17	Med.	M137/E, M152/E	15,000	17,500	12,800	4000K	65
64170	MS175/C/PS/BU-ONLY/MED	175	Coated	E17	Med.	M137/E, M152/E	15,000	16,600	12,500	3700K	70

METALARC PRO-TECH PULSE START PAR38/EC0®

Item Number	Ordering Abbreviation	Watts	ANSI Code	Beam Angle/ CBCP	Initial Lumens	Average Rated Life (hr.)	Color Temp.	CRI⁴
						- (/	- "	
64592	MP70PAR38/U/FL35/EC0 ^{5,6}	70	M98/0	35°/10,000	3,400	8,500	3200K	75
64580	MP100PAR38/U/SP20/EC05,6	100	M90/0	20°/26,000	5,800	8,500	3000K	75
64582	MP100PAR38/U/FL35/EC05,6	100	M90/0	35°/12,000	5,800	8,500	3000K	75
64584	MP100PAR38/U/VWFL65/EC05,6	100	M90/0	65°/4500	5,800	8,500	3000K	75
64593	MP150PAR38/U/SP20/EC05,6	150	M102/0	20°/34,000	8,800	8,500	3200K	75
64597	MP150PAR38/U/FL35/EC0 ^{5,6}	150	M102/0	35°/17,000	8,800	8,500	3200K	75

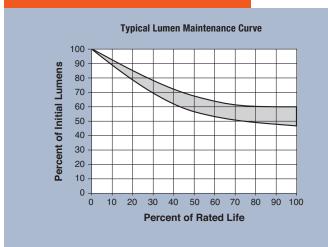
Notes:

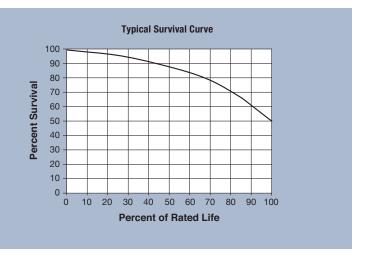
- ${\bf 1.\,Average\,\, rated\,\, life\,\, based\,\, on\,\, 10\,\, hours\,\, per\,\, start\,\, operating\,\, on\,\, an\,\, ANSI\,\, ballast.}$
- 2. All 50, 70, 100, 150 and 175 watt lamps must be operated in a 4000V pulse rated socket.
- 3. TCLP claims based on OSRAM SYLVANIA'S TCLP test protocol. Some states and localities have lower limits than the Federal TCLP standard and have different disposal regulations for mercury containing lamps.
- 4. For higher CRI, use SYLVANIA METALARC POWERBALL® CERAMIC lamps.
- 5. All PAR38 lamps listed above have an E26 medium skirt base. Note this base is not compatible with exclusionary medium sockets.
- 6. See Beam Spread Design Guide for footcandle diagrams.
- 0 = Lamps classified as 0-type comply with ANSI Standard C78.389 for containment testing and may be used in open luminaires. See lamp warning.
- $\mathsf{E} = \mathsf{Lamps}$ classified as $\mathsf{E}\text{-type}$ are to be used only in suitably rated enclosed luminaires.

Ordering Guide

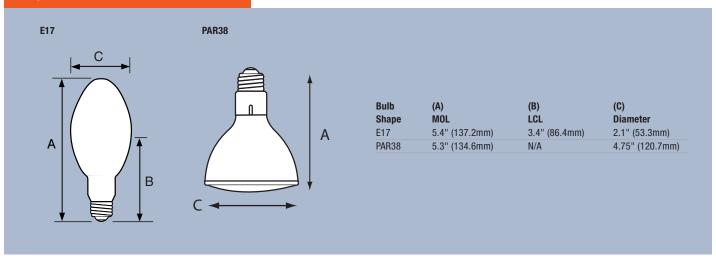
E17									
MP	50		1	_		/ U	1		MED
MP=METALARC PRO-TECH® For Open and Enclosed Fixture	Wattage: 50, 70, 100, 150, 175			Finish _ = Clear C = Coated		Operating Position: U = Universal BU-ONLY = Base Up Only			Base: MED = Medium
M=METALARC® MS=METALARC Super For Enclosed Fixture Only							a sp any		
PAR38									
MP MP=METALARC PRO-TECH Open and Enclosed Fixture	70 Wattage: 70, 100, 150	PAR38 Bulb Shape PAR38	/	U Operating Position: U = Universal	1	SP Beam Spread SP = Spot FL = Flood VWFL = Very Wide Flood	20 Beam Angle 20 = 20° 35 = 35° 65 = 65°	1	ECO ECOLOGIC®

Technical Information





Lamp Dimensions



Expanded Line of SYLVANIA METALARC PRO-TECH and PULSE START lamps

In addition to the line of METALARC PRO-TECH lamps listed, OSRAM SYLVANIA offers a line of METALARC POWERBALL® CERAMIC, METALARC PULSE START and METALARC SUPERSAVER® lamps for use in open and or enclosed rated fixtures. Please visit SYLVANIA.com for more information and download a copy of the latest Product Information Bulletin.

Exclusionary Socket for METALARC PRO-TECH® Lamps



WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave Ultraviolet radiation if the 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. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.





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SEE THE WORLD IN A NEW LIGHT is a registered trademark of OSRAM SYLVANIA Inc.
POWERBALL is a registered trademark of OSRAM GmbH.
Specifications subject to change without notice.

Sample Specification

METALARC PRO-TECH PULSE START

Lamp(s) shall be (a) METALARC PRO-TECH PULSE START Lamp(s) constructed with an arc tube shroud and shall be designed for open fixture operation and reduced UV output.

METALARC® PULSE START

Lamp(s) shall be (a) 150W METALARC PULSE START lamp(s) exhibiting initial lumens of 14,000 with a 60% mean lumen maintenance and capable of operating on a M102/E ballast. Lamp construction shall include a lead-free welded base.

METALARC PRO-TECH PULSE START PAR38/ECO®

Lamp(s) shall be (a) METALARC PRO-TECH PULSE START PAR38/ECO lamp(s) for use in open or enclosed luminaires with an 8,500-hour average rated life. Lamp(s) shall exhibit a correlated color temperature of 3200K, a maximum color shift of ±200K over life, and a CRI of 75. Lamp(s) shall pass the existing Federal TCLP limits.

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