# METALARC® POWERBALL® Ceramic

## High CRI, Ceramic Metal Halide Tubular Single & Double-Ended Lamps



#### **Key Features & Benefits**

Advantages of POWERBALL Ceramic Arc Tube Technology

- Excellent CRI, up to 95, yields more natural colors
- Long life and high efficacy
- Lower thermal output than tungsten halogen lamps having similar light output
- Superior color stability over the life of the lamp
- Improved lamp-to-lamp color consistency\*

\* Compared to quartz metal halide lamps of similar wattage

- UV-Stop technology significantly reduces UV output and minimizes discoloration and fading of materials
- Pulse start arc tube technology
- Strong G8.5 bases on TC lamps allow for more robust handling
- Compact light sources improve fixture optics

METALARC POWERBALL Ceramic T lamps meet today's color critical needs by combining conventional metal halide pulse start characteristics such as good efficacy and long life with improved lamp to lamp color consistency and high CRI.

Compared to conventional quartz metal halide products, SYLVANIA ceramic arc tube metal halide lamps exhibit less color variation and higher efficacy. Their high mean lumens, excellent color characteristics and compact size allow them to be used in a wide variety of applications.

METALARC POWERBALL Ceramic lamps operate on existing ANSI specified magnetic ballasts and on compatible electronic ballasts. The lamps can be used in appropriate existing fixtures designed for metal halide lamps of similar wattages and configurations.

## **Product Offering**

Wattage	Bulb Shape
20	T4.5
39	T4.5, T6
70	T4.5, T6
150	T7.5

## **Application Information**

#### **Applications**

- Accent lighting
- Commercial
- Display lighting
- Industrial
- · Landscape lighting
- Lobbies
- Malls
- Office areas
- · Retail stores
- Studio lighting

#### **Application Notes**

1. METALARC POWERBALL Ceramic T4.5, T6, T7.5 and double-ended products must be operated in enclosed fixtures capable of containing particles as hot as 1200°C.

#### **Fixtures**

Contact your local fixture agent for available fixtures.

#### **Ballast Information**

Contact your OSRAM SYLVANIA representative or visit www.sylvania.com for a list of compatible electronic control systems and download the latest Ballast Technology & Specification Guide.



## **Specification Data**

Catalog #	Туре
Project	
Comments	
Prepared by	Date

#### **Ordering Information**

For Enclos	ed Rated Fixtures					Average				
ltem Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI <sup>4</sup> Code	Rated Life (hr.) <sup>5</sup>	Initial Lumens	Mean Lumens	ССТ	CRI
64882	MC20TC/U/G8.5/830 PB <sup>1,3</sup>	20	T4.5	G8.5	C156/E	15,000	1,700	1,275	3000K	83
64791	MC39TC/U/G8.5/830 PB <sup>1,2</sup>	39	T4.5	G8.5	C130/E	15,000	3,400	2,720	3000K	82
64363	MC39T6/U/G12/830 PB <sup>1,2</sup>	39	T6	G12	C130/E	15,000	3,400	2,720	3000K	82
64325	MC39T6/U/G12/940 PB <sup>1,2</sup>	39	T6	G12	C130/E	15,000	3,300	2,640	4200K	86
64825	MC70TC/U/G8.5/930 PB <sup>1,2</sup>	70	T4.5	G8.5	C139/E	15,000	6,300	5,040	3000K	95
64361	MC70T6/U/G12/830 PB <sup>1,2</sup>	70	T6	G12	C139/E	15,000	7,000	5,600	3000K	87
64200	MC70T6/U/G12/930 PB <sup>1,2</sup>	70	T6	G12	C139/E	15,000	6,400	5,120	3000K	95
64338	MC70T6/U/G12/940 PB <sup>1,2</sup>	70	T6	G12	C139/E	15,000	6,700	5,360	4200K	93
64359	MC150T7.5/U/G12/830 PB1	150	T7.5	G12	C142/E	15,000	15,500	12,400	3000K	89
64337	MC150T7.5/U/G12/940 PB1	150	T7.5	G12	C142/E	15,000	14,500	11,600	4200K	95
64793	MC70T6/DE/830 PB <sup>2</sup>	70	T6	R7S RSC	C139/E, C85/E	15,000	6,900	5,520	3000K	88
64794	MC150T7.5/DE/830 PB	150	T7.5	RX7S RSC	C142/E, C81/E	15,000	14,800	11,840	3000K	91

- $1. \ The \ circuit \ must \ include \ overcurrent \ protection \ (i.e., Thermally \ Switched \ Ballast).$
- 2. Minimum open circuit voltage for starting is measured with the ignitor in the circuit, minimum open circuit voltage is 209 VRMS.
- 3. Designed for operation only on electronic ballasts.
- 4. The first letter of an ANSI high-intensity discharge lamp designation represents the lamp type. "M" represents quartz metal halide lamps and "C" represents ceramic metal halide lamps. Following the lamp type, there is a number representing the electrical characteristics of the ballast. "M" or "C" lamps with the same electrical numbers will operate on the same ballasts (per ANSI C78.380-2007). For example, a 150W ceramic metal halide lamp that is intended to operate on a ballast intended for M102 quartz metal halide lamps would have the designation C102.
- 5. Performance based on electronic ballast operation.

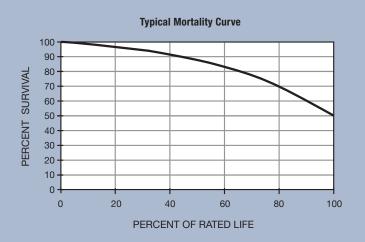
#### General Notes:

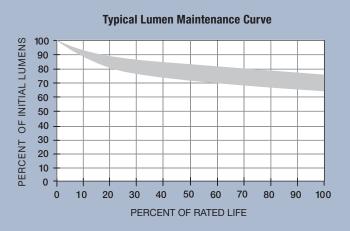
- $\bullet \ \hbox{Contact your local OSRAM SYLVANIA representative for compatible electronic ballasts}.$
- $\bullet$  All ceramic lamps should be used with 4000V pulse rated socket only.
- No special handling requirements during installation (i.e., gloves not required). Always follow normal safety precautions during installation.

#### **Ordering Guide**

MC	70	T6	1	DE	1	U	1	G12 /		830	PB
M=METALARC® C=Ceramic	Wattage: 20, 39, 70 100, 150	Bulb Shape: T4.5, T6 T7.5		_ = Single Ended DE = Double Ended		Operating position: Universal		Base: G8.5, G12	3	3=80+ CRI 9=90+ CRI 80=3000K CCT 40=4200K CCT	PB=POWERBALL®

## **Technical Information**





## **Lamp Dimensions**

Lamp Shape	(A) MOL	(B) LCL	(C) Bulb Diameter	TC .	T6 (T7.5)/G12
TC	3.19" (81mm)	2.05" (52mm)	0.591" (15mm)	<b>←</b>	, C ,
T6/G12	3.94" (100mm)	2.20" (56mm)	0.748" (19mm)		<del>-</del>
T7.5/G12	4.13" (105mm)	2.20" (56mm)	0.984" (25mm)		
T6/RSC	4.50" (120mm)	2.25" (60mm)	0.827" (20mm)		
T7.5/RSC	5.20" (138mm)	2.60" (69mm)	0.945" (23mm)	-	
		T/RSC	A B		B

### **Sample Specification**

Lamp(s) shall be METALARC® POWERBALL® Ceramic MC70T6/U/G12/830 lamp(s), and shall be constructed with a ceramic arc-tube with initial lumens of 6700. Lamp(s) shall have a CRI of 87, CCT of 3000K, and shall exhibit a maximum color shift of ±150K over life. Lamps shall be rated for open fixture use.

# United States OSRAM SYLVANIA

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## **OEM/Special Markets**

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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.