

HID Multi-5™ Magnetic Ballasts Featuring Universal Precise™ Design

One Revolutionary Ballast For All Your Metal Halide And High Pressure Sodium Needs

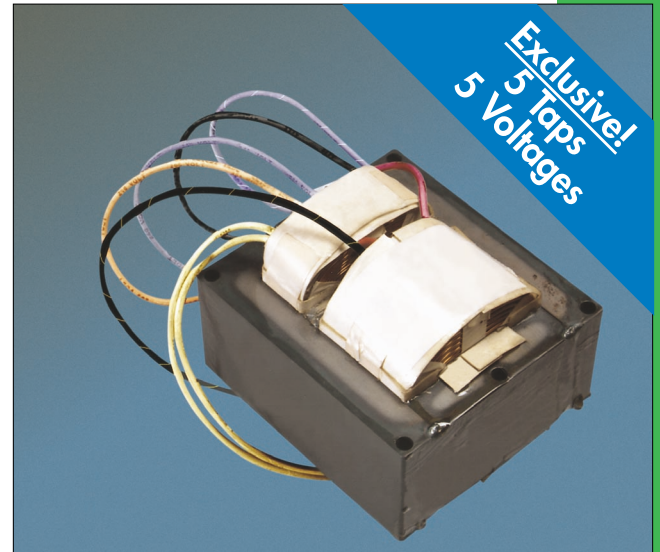
Universal Lighting's Multi-5™ is the industry's first five-voltages-in-one, high intensity discharge (HID) magnetic ballast family.

The Universal Precise™ family of products offers these innovations:

- Smaller, lighter design
- Color-coded leads for easier installation
- New easy-ordering catalog nomenclature
- Improved temperature performance
- No plastic pieces (extrusions)
- No exposed live metal parts

The Multi-5™ line takes the popular quad ballast design (120, 208, 240 and 277 volts) and adds 480-volt capability. That ensures you always have the right voltage HID ballast for every metal halide and high pressure sodium application.

The versatile Multi-5™ is ideal for a wide range of HID applications, including large retail stores, sports arenas, parking lots, and roadways.



Multi-5™ Means Multiple Benefits For Distributors, OEMs And End Users

It's amazing how just one ballast can offer so many benefits:

Distributors save both inventory space and working capital by stocking one ballast instead of two.

OEMs can rely on a cost-effective, added-value element for their fixtures—a competitive edge in today's marketplace.

End users enjoy the benefits of an ultra-reliable ballast.

Multi-5™ High Pressure Sodium Family of Ballasts — Technical Specifications

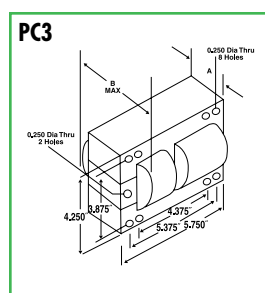
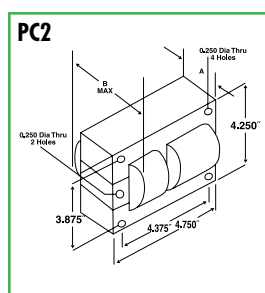
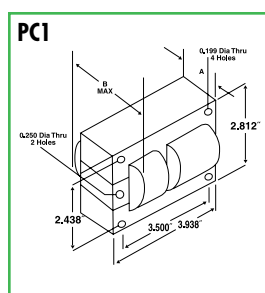
Input Volts	Catalog Number	Circuit Type	Input Watts	Max. Input Current	Nom. Open Circuit Voltage	Fuse Rating	Wiring Diagram	Dimensions			Capacitor				Total Weight (lbs.)	UL Bench Top Rise		
								Fig.	A	B	Mfd.	Min. Volt	Dry Film				Oil Filled	
													005-4454-P	005-1421-MF			005-4462-P	005-1594-MF
(1) 250 Watt S50 High Pressure Sodium Lamp, -40°C																		
120			300	2.50		8										A		
208			300	1.50		5										A		
240	S250ML5AC4M	CWA	300	1.30	200	4	2	PC2	2.0	3.8	35	280	1.8	3.6	1.91 x 2.91	3.1	14.0	A
277			300	1.10		4												A
480			300	0.65		2												A

Input Volts	Catalog Number	Circuit Type	Input Watts	Max. Input Current	Nom. Open Circuit Voltage	Fuse Rating	Wiring Diagram	Dimensions			Capacitor				Total Weight (lbs.)	UL Bench Top Rise		
								Fig.	A	B	Mfd.	Min. Volt	Dry Film				Oil Filled	
													005-4465-P	005-1594-MF			005-4462-P	005-1421-MF
(1) 400 Watt S51 High Pressure Sodium Lamp — 4 3/4" Frame, -40°C																		
120			465	3.90		15												B
208			465	2.25		8												D
240	S400ML5AC4M	CWA	465	1.95	190	8	2	PC2	2.4	4.2	55	240	1.8	3.6	1.91 x 2.91	3.5	14.0	C
277			465	1.70		5												C
480			465	1.00		5												B

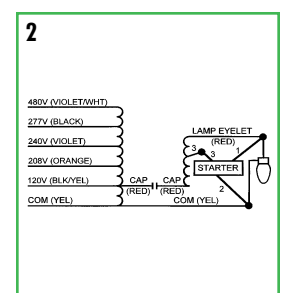
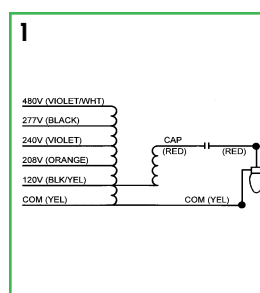
Input Volts	Catalog Number	Circuit Type	Input Watts	Max. Input Current	Nom. Open Circuit Voltage	Fuse Rating	Wiring Diagram	Dimensions			Capacitor				Total Weight (lbs.)	UL Bench Top Rise		
								Fig.	A	B	Mfd.	Min. Volt	Dry Film				Oil Filled	
													005-4462-P	005-1422-MF			005-4462-P	005-1422-MF
(1) 400 Watt S51 High Pressure Sodium Lamp — 5 3/4" Frame, -40°C																		
120			468	3.90		15												C
208			468	2.25		8												C
240	S400ML5AC5M	CWA	468	1.95	200	8	2	PC3	2.5	4.3	48	280	1.8	4.6	1.91 x 2.91	3.9	17.5	C
277			468	1.70		5												C
480			468	1.00		5												C

Input Volts	Catalog Number	Circuit Type	Input Watts	Max. Input Current	Nom. Open Circuit Voltage	Fuse Rating	Wiring Diagram	Dimensions			Capacitor				Total Weight (lbs.)	UL Bench Top Rise		
								Fig.	A	B	Mfd.	Min. Volt	Dry Film				Oil Filled	
													N/A	005-2776-MF			005-4462-P	005-1422-MF
(1) 1000 Watt S52 High Pressure Sodium Lamp, -40°C																		
120			1048	9.10		20												D
208			1048	5.40		15												D
240	S1000ML5AC5M	CWA	1048	4.60	435	10	2	PC3	3.7	5.5	26	525	n/a	n/a	1.91 x 2.91	4.3	26.0	D
277			1048	4.10		10												D
480			1048	2.40		8												D

Figures



Wiring Diagrams



Innovation Is The Universal Language

More than 50 years ago—when today's complex lighting systems were still an engineering dream—lighting professionals were relying on Universal[®] ballasts. It's a name that still means dependability and innovation in lighting ballast technology. You can count on Universal Lighting for the most specified, most installed, most reliable ballasts in the business.



It's Easy To Reach Us...

Phone: (615) 316-5100
BallastFax: (708) 445-4444
for specifications and purchasing
information 24 hours a day
Web site: www.universalballast.com
E-mail: webmaster@universalballast.com

For Technical Engineering Services (TES), application support and warranty information, call 1-800-BALLAST.

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