



5-TAP™ HID Ballast

**NEW from
ADVANCE**

for 250, 400, and 1000W Metal Halide and High Pressure Sodium lamps

One ballast satisfies all U.S. voltage applications

Function

Advance Transformer developed the 5-TAP™ family of HID ballasts to support the lighting industry's growing desire for products that enable flexibility and ease of installation in the new fixture and replacement markets. Each ballast features 120, 208, 240, 277, and 480 volt, 60Hz inputs, making it suitable for the complete range of U.S. commercial and industrial applications.



Design Highlights

- The new 5-TAP™ adds a 480 volt input lead to the widely-accepted Quadri-volt™ designs. With this capability the 5-TAP™ serves all U.S. voltage applications.
- The 120 input on 5-TAP™ ballasts is also suitable as an output for powering quartz standby lighting for installations where 120V is not available. The common practice of ordering special ballasts with a 120V output tap for applications requiring quartz standby lighting is not necessary when installing Advance 5-TAP™ ballasts.
- The construction of the 5-TAP™ incorporates the reliable, high-performance design features of all Advance HID ballasts, the most widely used ballasts in the industry. Those features include vacuum-pressure impregnation, pre-insulated input leads, 100°C dry-film capacitors (400 watts and below), and 105°C ignitors (HPS).

Applications

- Virtually any industrial or commercial HID requirement for 250, 400, or 1000 watt Metal Halide or High Pressure Sodium lamps

Features	Benefits
Five input voltage leads: 120/208/240/277/480V	<ul style="list-style-type: none"> • Reduces costs associated with inventory and field installation errors • Eliminates the need for a different ballast in emergency quartz light applications
Vacuum-pressure impregnation core and coil	<ul style="list-style-type: none"> • Maximizes ballast life due to superior heat dissipation and moisture elimination • Quiet operation
Pre-insulated input voltage leads	<ul style="list-style-type: none"> • No exposed live parts allows for safe installation • Saves time and effort - no need to cap off unused leads
Dry-film capacitors for units rated 400 watt and below	<ul style="list-style-type: none"> • No exposed live parts and no grounding requirements makes installation safe and easy • 100°C rating (versus 90°C for oil-filled capacitors) = longer life and fixture design flexibility • Smaller size than oil-filled capacitors - no fit problems
Pre-wired ignitor (high pressure sodium) in all Distributor Replacement Kits	<ul style="list-style-type: none"> • Speeds up installation and minimizes wiring errors
Comparable in size to industry accepted single and multi-input voltage ballasts	<ul style="list-style-type: none"> • No fit problems • Straightforward installation

Advance 5-TAP Specifications

Metal Halide

Input Volts	Catalog† Number	Circuit Type	Circuit Type	Max.* Input Current (Amps)	Nom. Open Circuit Voltage	Fuse Rating	Wiring Dia.	Dimensions			Non-PCB Capacitor				Total Weight (lbs.)	Ignitor		U.L. Bench Top Rise Code 1029_			
								FIG	A	B	Mfd	Min Volt	Dry Film Dia. (in)	Dry Film Ht. (in)		Oil Filled Oval (in)	Oil Filled Ht. (in)	Part Number	Max. Dist. To Lamp	Class H (180°C)	ADVANCE Class N (200°C)‡
250 WATT LAMP, ANSI CODE M58 OR H37																					
120/208/240/277/480	71A5750 71A5750-001D	CWA	290	2.6/1.5/1.4/1.1/1.65	315	8/5/5/3/2	A	2	1.6	3.1	15	400	1.75	3.75	-	-	10	-	-	A/A/B A/B	-
400 WATT LAMP, ANSI CODE M59 OR H33																					
120/208/240/277/480	71A6051 71A6051-001D	CWA	460	4.1/2.3/2/1.7/1	300	10/7/5/5/3	A	2	2.2	4	24	400	1.75	5.125	-	-	13.5	-	-	D/C/D/ C/D	-
1000 WATT LAMP, ANSI CODE M47 OR H36																					
120/208/240/277/480	71A6552 71A6552-001	CWA	1080	9.05/5.6/4.7/4.07/2.36	426	22/15/12/10/6	A	B	3	4.7	24	480	-	-	1.75	3.9	22	-	-	D/D/D/ C/C	A/A/A/ A/A

High Pressure Sodium

Input Volts	Catalog† Number	Circuit Type	Circuit Type	Max.* Input Current (Amps)	Nom. Open Circuit Voltage	Fuse Rating	Wiring Dia.	Dimensions			Non-PCB Capacitor				Total Weight (lbs.)	Ignitor		U.L. Bench Top Rise Code 1029_			
								FIG	A	B	Mfd	Min Volt	Dry Film Dia. (in)	Dry Film Ht. (in)		Oil Filled Oval (in)	Oil Filled Ht. (in)	Part Number	Max. Dist. To Lamp	Class H (180°C)	ADVANCE Class N (200°C)‡
250 WATT LAMP, ANSI CODE S50																					
120/208/240/277/480	71A8251 71A8251-001D	CWA	300	2.65/1.5/1.3/1.2/1.66	185	10/4/4/3/2	M	2	1.95	3.55	35	240	1.75	3.75	-	-	12	LI501-H4	2	B/B/B B/B	-
400 WATT LAMP, ANSI CODE S51																					
120/208/240/277/480	71A8453 71A8453-001D	CWA	465	3.9/2.2/1.9/1.7/1	195	10/6/5/5/3	M	2	2.65	4.35	55	240	1.75	5.15	-	-	16	LI501-H4	2	C/C/D/ D/C	-
1000 WATT LAMP, ANSI CODE S62																					
120/208/240/277/480	71A8753 71A8753-001	CWA	1100	9.28/5.3/4.7/4.03/2.31	437	25/15/12/10/6	M	8a	3.97	6	26	525	-	-	1.75	5.3	29	LI571-H5	2	C/C/C/ C/C	A/A/A/ A/A

† Ordering information:

Replacement/retrofit ballast kits indicated by bold type with suffix -001(D).

Original equipment ballasts - add proper suffix to catalog number:

- 500D includes core and coil with dry-film capacitor
- 510D includes core and coil with welded bracket and dry-film capacitor
- 500 includes core and coil with oil-filled capacitor
- 510 includes core and coil with welded bracket and oil-filled capacitor
- 600 core and coil only (no capacitor)
- 610 core and coil with welded bracket (no capacitor)

• For CWA circuits, figure is operating current.

‡ For details refer to Advance Class N 200°C Insulation data sheet (Form No. HI-4030-R01).

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
2	6.5	1.25	5.75	0.28
8	7.8	2.75	6.13	0.25
8a	7.8	4.50	6.75	0.31

