



## AB4-54-PS-UNV-2

# Universal Voltage Electronic T5HO Ballast Program Rapid Start Series Lamp Operation

FOUR LAMP OPERATION					
Lamp Type	F54T5HO	F54T5HO/ES	F54T5HO/ES	FT50T5	FT55T5
Rated Lamp Watts	54	51	49	50	55
Ballast Factor	1.00	1.00	1.00	1.10	0.90
Input Power (W)	238	224	216	234	220
Input Current (A) @120V	1.98	1.88	1.81	1.94	1.84
Input Current (A) @277V	0.85	0.82	0.79	0.82	0.79
Power Factor	.98	.98	.98	.98	.98
THD	<10%	<10%	<10%	<10%	<10%
Ballast Efficacy Factor	0.42	0.45	0.46	0.47	0.41
THREE LAMP OPERATION					
Lamp Type	F54T5HO	F54T5HO/ES	F54T5HO/ES	FT50T5	FT55T5
Rated Lamp Watts	54	51	49	50	55
Ballast Factor	1.00	1.00	1.00	1.10	0.90
Input Power (W)	180	169	163	176	167
Input Current (A) @120V	1.50	1.42	1.37	1.47	1.39
Input Current (A) @277V	0.65	0.62	0.59	0.64	0.60
Power Factor	.98	.98	.98	.98	.98
THD	<10%	<10%	<10%	<10%	<10%
Ballast Efficacy Factor	0.56	0.59	0.61	0.63	0.54
TWO LAMP OPERATION					
Lamp Type	F54T5HO	F54T5HO/ES	F54T5HO/ES	FT50T5	FT55T5
Rated Lamp Watts	54	51	49	50	55
Ballast Factor	1.00	1.00	1.00	1.09	0.89
Input Power (W)	117	110	106	115	109
Input Current (A) @120V	0.98	0.92	0.89	0.96	0.91
Input Current (A) @277V	0.42	0.40	0.38	0.42	0.40
Power Factor	.98	.98	.98	.98	.98
THD	<10%	<10%	<10%	<10%	<10%
Ballast Efficacy Factor	0.85	0.91	0.94	0.95	0.82
ONE LAMP OPERATION					
Lamp Type	F54T5HO	F54T5HO/ES	F54T5HO/ES	FT50T5	FT55T5
Rated Lamp Watts	54	51	49	50	55
Ballast Factor	1.00	1.00	1.00	1.09	0.89
Input Power (W)	61	57	55	60	57
Input Current (A) @120V	0.50	0.48	0.46	0.50	0.48
Input Current (A) @277V	0.22	0.21	0.20	0.23	0.22
Power Factor	.98	.98	.98	.98	.98
THD	<15%	<15%	<15%	<15%	<15%
Ballast Efficacy Factor	1.62	1.75	1.82	1.82	1.56

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### BALLAST SPECIFICATIONS

- Ballast shall have a three-year warranty at 90°C case temperature.
- Ballast shall be UL certified for the U.S. and Canada
- Ballast shall be sound rated Class A.
- Ballast shall have a Lamp Current Crest Factor of <1.7.
- Ballast shall withstand line transients as specified in ANSI C62.41-1991
- Ballast shall comply with the limits of FCC Part 18C for Non-Consumer equipment.
- Ballast shall have a lamp operating frequency between 40 and 52kHz.
- Ballast shall have a -20°F minimum lamp starting temperature.
- Ballast shall be potted.
- Ballast shall be Program Rapid Start
- Ballast shall be Series Lamp Operation
- Ballast shall have EOL (end of life) protection.
- Ballast shall have minimum Power Factor of 98% for primary lamp operation
- Ballast shall operate within +/- 10% of the ballast specified line voltage at 50/60Hz.
- Ballast shall have a maximum case hot spot temperature of 90°C.

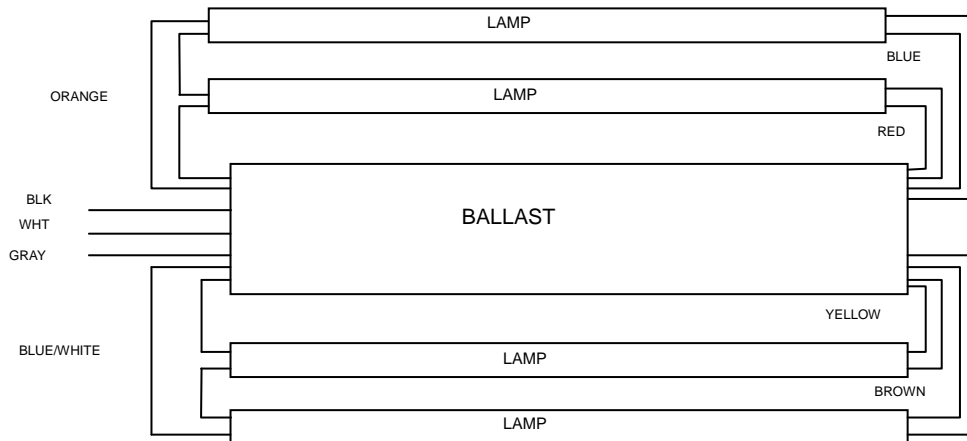
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## AB4-54-PS-UNV-2

### WIRING DIAGRAMS

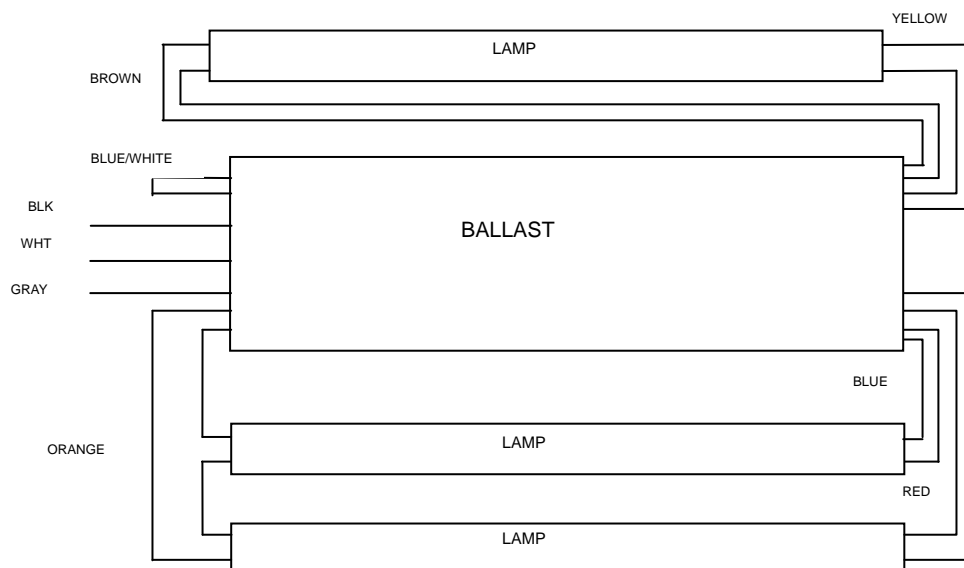
#### TWO OR FOUR LAMP OPERATION

1. For four lamp operation, connect gray lead to white lead.
2. For two lamp operation, cap gray lead.



#### TWO OR THREE LAMP OPERATION

1. For three lamp operation, connect gray lead to white lead, connect blue/white leads together.
2. For two lamp operation, cap gray lead.



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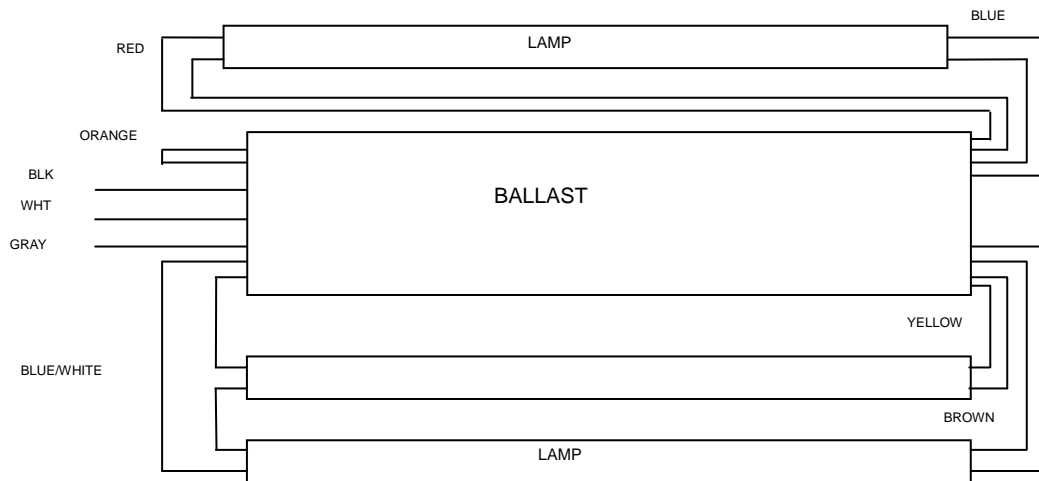
Revision Date: 02/07/2011

## AB4-54-PS-UNV-2

### WIRING DIAGRAMS

#### ONE OR THREE LAMP OPERATION

1. For three lamp operation, connect gray lead to white lead, connect orange leads together.
2. For one lamp operation, cap gray lead.



### BALLAST DIMENSIONS

