



SPECIFICATION SHEET : WH8-230-L
 This Is An Original Product From Fulham Co., Inc

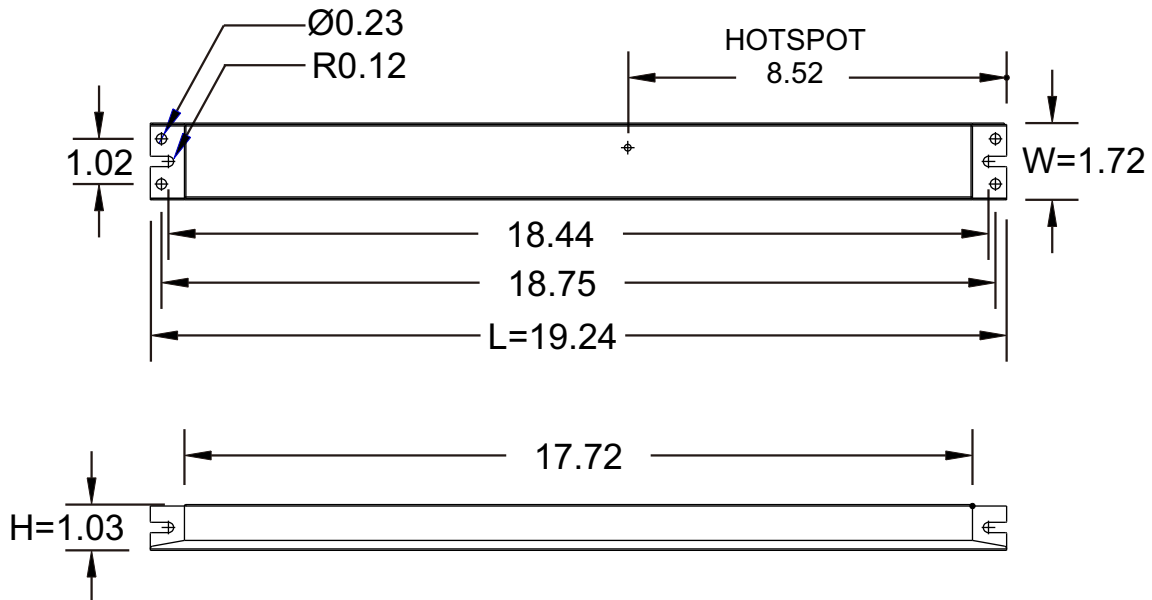
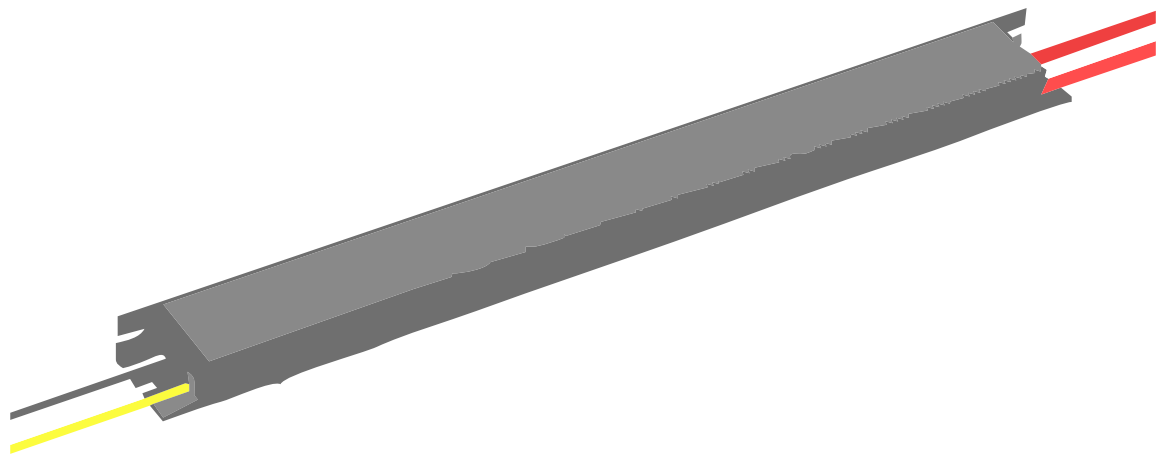
Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.

ELECTRICAL/MECHANICAL DATA (230V APPLICATION)

WIRE	BLACK	WHITE	RED	BLUE	YELLOW	BROWN
LENGTH - INCHES	18 ± 1"	18 ± 1"	36 ± 1"	-	36 ± 1"	-

WIRING DIAGRAMS REFER TO FULHAM'S CATALOGUE
 NOTE : This Ballast Must Be Grounded



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DUE TO A PROGRAM OF CONTINUOUS IMPROVEMENT, FULHAM Co., INC RESERVES THE RIGHT TO MAKE ANY VARIATION IN DESIGN OR CONSTRUCTION TO THE EQUIPMENT DESCRIBED.

Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-1 rev B



SPECIFICATION SHEET : WH8-230-L

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Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



TWIN(CFT/E), 4 PIN

ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz								
LAMP WATTS/TYPE	CFT36W	CFT36W	CFT40W	CFT36W	CFT40W	CFT50W	CFT36W	CFT40W
LAMPS OPERATED	6	5		4			3	
WIRING DIAGRAM #	29	28		27			25	
INPUT WATTS	180	158	216	136	183	190	111	149
LINE CURRENT	0.82	0.73	0.98	0.62	0.83	0.87	0.51	0.68
POWER FACTOR	0.95	0.95	0.96	0.94	0.95	0.95	0.94	0.95
BALLAST FACTOR	0.80	0.85	0.95	0.89	0.99	0.82	0.93	1.03
EFFICACY FACTOR	0.45	0.53	0.44	0.66	0.54	0.43	0.84	0.70
THD	30%	31%	29%	32%	30%	30%	34%	31%
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993							
INPUT/PROTECTION	FUSE							
OUTPUT/PROTECTION	-							
MIN. STARTING TEMP	- 18 °C (0 °F)							
MAX. CASE TEMP	70 °C (158 °F)							
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION							
ENERGY STAR 4.0	-							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR							

INPUT VOLT: 230V ± 10%, 50/60Hz								
LAMP WATTS/TYPE	CFT50W	CFT55W	CFT36W	CFT50W	CFT55W	CFT96W	CFT55W	CFT96W
LAMPS OPERATED	3		2			1		
WIRING DIAGRAM #	25		22			23	16	17
INPUT WATTS	155	185	82	116	134	206	63	128
LINE CURRENT	0.71	0.84	0.38	0.53	0.62	0.94	0.29	0.59
POWER FACTOR	0.95	0.95	0.93	0.94	0.94	0.95	0.92	0.94
BALLAST FACTOR	0.86	0.95	0.99	0.92	1.04	0.94	0.80	1.10
EFFICACY FACTOR	0.56	0.51	1.20	0.79	0.77	0.46	1.27	0.87
THD	31%	30%	35%	33%	33%	29%	37%	33%
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993							
INPUT/PROTECTION	FUSE							
OUTPUT/PROTECTION	-							
MIN. STARTING TEMP	- 18 °C (0 °F)							
MAX. CASE TEMP	70 °C (158 °F)							
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION							
ENERGY STAR 4.0	-							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR							

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Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-2 rev B



SPECIFICATION SHEET : WH8-230-L
 This Is An Original Product From Fulham Co., Inc

Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F24T5HO	F24T5HO	F24T5HO	F39T5HO	F39T5HO	F54T5HO	F54T5HO	F80T5HO	-
LAMPS OPERATED	6	5	4		3	2	1		
WIRING DIAGRAM #	29	28	27		25	22	16		
INPUT WATTS	143	128	110	162	133	115	70	88	
LINE CURRENT	0.66	0.59	0.51	0.74	0.61	0.53	0.33	0.41	
POWER FACTOR	0.95	0.95	0.94	0.95	0.95	0.94	0.93	0.94	
BALLAST FACTOR	0.91	0.95	0.99	0.89	0.94	0.88	0.96	0.87	
EFFICACY FACTOR	0.64	0.74	0.90	0.55	0.70	0.77	1.37	0.98	
THD	32%	32%	33%	31%	32%	33%	36%	34%	
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

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Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-3 rev B

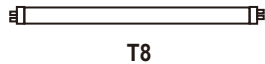


SPECIFICATION SHEET : WH8-230-L

This Is An Original Product From Fulham Co., Inc

Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F13T8	F14T8	F15T8	F17T8	F18T8	F25T8	F30T8	F32T8	-
LAMPS OPERATED	6								
WIRING DIAGRAM #	29								
INPUT WATTS	67	86	102	122	123	167	173	222	
LINE CURRENT	0.31	0.40	0.47	0.56	0.57	0.77	0.79	1.01	
POWER FACTOR	0.93	0.94	0.94	0.94	0.94	0.95	0.95	0.96	
BALLAST FACTOR	0.80	0.92	1.11	1.22	1.04	1.18	0.93	1.18	
EFFICACY FACTOR	1.20	1.08	1.08	1.00	0.85	0.71	0.54	0.53	
THD	35%	34%	33%	32%	33%	31%	31%	28%	
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

INPUT VOLT: 230V ± 10%, 50/60Hz										
LAMP WATTS/TYPE	F13T8	F14T8	F15T8	F18T8	F30T8	F13T8	F14T8	F18T8	F30T8	
LAMPS OPERATED	5					4				
WIRING DIAGRAM #	28					27				
INPUT WATTS	60	74	90	109	152	54	64	96	131	
LINE CURRENT	0.28	0.34	0.42	0.51	0.70	0.25	0.30	0.45	0.60	
POWER FACTOR	0.93	0.94	0.94	0.94	0.95	0.93	0.93	0.93	0.94	
BALLAST FACTOR	0.83	0.96	1.18	1.12	0.98	0.79	0.90	1.15	1.04	
EFFICACY FACTOR	1.37	1.31	1.31	1.02	0.64	1.47	1.41	1.20	0.79	
THD	36%	35%	34%	34%	32%	36%	36%	35%	32%	
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)									
SOUND RATING	" A "									
BALLAST TYPE	INSTANT START									
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993									
INPUT/PROTECTION	FUSE									
OUTPUT/PROTECTION	-									
MIN. STARTING TEMP	- 18 °C (0 °F)									
MAX. CASE TEMP	70 °C (158 °F)									
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION									
ENERGY STAR 4.0	-									
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR									

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Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-4 rev B



SPECIFICATION SHEET : WH8-230-L

This Is An Original Product From Fulham Co., Inc

Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F14T8	F18T8	F30T8	-	-	-	-	-	-
LAMPS OPERATED	3								
WIRING DIAGRAM #	25								
INPUT WATTS	54	81	108						
LINE CURRENT	0.25	0.37	0.50						
POWER FACTOR	0.93	0.94	0.94						
BALLAST FACTOR	1.05	1.23	1.09						
EFFICACY FACTOR	1.93	1.52	1.01						
THD	36%	35%	33%						
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F60T8HO	F60T8HO	F72T8HO	F60T8HO	F72T8HO	-	-	-	-
LAMPS OPERATED	4	3		2					
WIRING DIAGRAM #	27	25		22					
INPUT WATTS	202	167	200	123	150				
LINE CURRENT	0.92	0.76	0.91	0.57	0.69				
POWER FACTOR	0.95	0.95	0.95	0.94	0.95				
BALLAST FACTOR	0.85	0.92	0.90	0.98	0.99				
EFFICACY FACTOR	0.42	0.55	0.45	0.79	0.66				
THD	29%	30%	29%	32%	31%				
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

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Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-5 rev B



SPECIFICATION SHEET : WH8-230-L
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Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz								
LAMP WATTS/TYPE	F40T10	F40T10	F40T10	F48T10VHO	F60T10VHO	F72T10VHO	-	-
LAMPS OPERATED	5	4	2	1				
WIRING DIAGRAM #	28	27	22	19				
INPUT WATTS	181	157	99	104	120	141		
LINE CURRENT	0.83	0.72	0.46	0.48	0.55	0.65		
POWER FACTOR	0.95	0.95	0.94	0.94	0.94	0.94		
BALLAST FACTOR	0.89	0.94	1.09	0.85	0.81	0.84		
EFFICACY FACTOR	0.49	0.60	1.10	0.82	0.68	0.60		
THD	30%	31%	33%	34%	33%	33%		
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993							
INPUT/PROTECTION	FUSE							
OUTPUT/PROTECTION	-							
MIN. STARTING TEMP	- 18 °C (0 °F)							
MAX. CASE TEMP	70 °C (158 °F)							
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION							
ENERGY STAR 4.0	-							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR							

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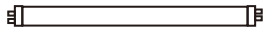


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Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



T12

ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F14T12	F15T12	F20T12	-	-	-	-	-	-
LAMPS OPERATED	6								
WIRING DIAGRAM #	29								
INPUT WATTS	76	85	112						
LINE CURRENT	0.36	0.40	0.52						
POWER FACTOR	0.93	84.65	0.94						
BALLAST FACTOR	0.77	0.82	0.85						
EFFICACY FACTOR	1.00	0.97	0.75						
THD	35%	34%	33%						
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F14T12	F15T12	F20T12	F24T12	F30T12	F36T12	F40T12	F42T12	F48T12
LAMPS OPERATED	5								
WIRING DIAGRAM #	28								
INPUT WATTS	69	75	100	91	139	131	173	153	174
LINE CURRENT	0.32	0.35	0.47	0.43	0.64	0.61	0.79	0.71	0.80
POWER FACTOR	0.93	0.93	0.93	0.93	0.94	0.94	0.95	0.94	0.95
BALLAST FACTOR	0.81	0.85	0.89	0.68	0.87	0.86	0.84	0.74	0.81
EFFICACY FACTOR	1.17	1.13	0.90	0.75	0.63	0.65	0.48	0.48	0.47
THD	35%	35%	33%	34%	31%	32%	30%	31%	31%
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
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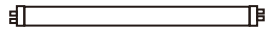


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This Ballast Will Operate Following Lamps.



T12

ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F14T12	F15T12	F20T12	F24T12	F25T12	F30T12	F36T12	F40T12	F42T12
LAMPS OPERATED	4								
WIRING DIAGRAM #	27								
INPUT WATTS	60	66	89	80	108	120	114	150	133
LINE CURRENT	0.29	0.31	0.42	0.38	0.50	0.55	0.53	0.69	0.61
POWER FACTOR	0.92	0.92	0.93	0.93	0.94	0.94	0.94	0.95	0.94
BALLAST FACTOR	0.85	0.90	1.03	0.72	1.00	0.93	0.92	0.89	0.90
EFFICACY FACTOR	1.41	1.36	1.17	0.90	0.93	0.77	0.80	0.59	0.68
THD	36%	35%	34%	35%	33%	33%	33%	31%	33%
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F48T12	F60T12	F64T12	F72T12	F14T12	F20T12	F24T12	F25T12	F30T12
LAMPS OPERATED	4				3				
WIRING DIAGRAM #	27				25				
INPUT WATTS	151	186	193	210	51	73	68	93	99
LINE CURRENT	0.69	0.85	0.89	0.96	0.24	0.34	0.32	0.43	0.46
POWER FACTOR	0.94	0.95	0.95	0.95	0.93	0.94	0.94	0.94	0.94
BALLAST FACTOR	0.82	0.79	0.81	0.72	0.89	1.01	0.76	1.04	0.99
EFFICACY FACTOR	0.55	0.42	0.42	0.34	1.76	1.37	1.12	1.12	1.01
THD	31%	30%	30%	29%	36%	35%	35%	34%	33%
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

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DUE TO A PROGRAM OF CONTINUOUS IMPROVEMENT, FULHAM Co., INC RESERVES THE RIGHT TO MAKE ANY VARIATION IN DESIGN OR CONSTRUCTION TO THE EQUIPMENT DESCRIBED.

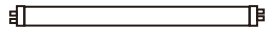
Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-8 rev B



SPECIFICATION SHEET : WH8-230-L
 This Is An Original Product From Fulham Co., Inc

Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



T12

ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F36T12	F40T12	F42T12	F48T12	F60T12	F64T12	F72T12	F84T12	-
LAMPS OPERATED	3								
WIRING DIAGRAM #	25								
INPUT WATTS	95	123	112	124	152	161	174	201	
LINE CURRENT	0.44	0.56	0.52	0.57	0.70	0.74	0.79	0.92	
POWER FACTOR	0.94	0.95	0.94	0.94	0.95	0.95	0.95	0.95	
BALLAST FACTOR	0.98	0.96	0.84	0.89	0.85	0.89	0.79	0.79	
EFFICACY FACTOR	1.03	0.79	0.75	0.72	0.56	0.55	0.45	0.39	
THD	34%	32%	33%	32%	31%	31%	30%	29%	
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F24T12	F25T12	F30T12	F36T12	F40T12	F42T12	F48T12	F60T12	F64T12
LAMPS OPERATED	2								
WIRING DIAGRAM #	22								
INPUT WATTS	53	73	76	73	93	86	94	115	121
LINE CURRENT	0.25	0.34	0.35	0.34	0.43	0.40	0.44	0.53	0.56
POWER FACTOR	0.92	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94
BALLAST FACTOR	0.81	1.10	1.08	1.05	1.05	0.90	0.95	0.93	0.96
EFFICACY FACTOR	1.52	1.50	1.42	1.43	1.13	1.04	1.02	0.80	0.80
THD	36%	35%	35%	35%	34%	34%	34%	33%	32%
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

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Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-9 rev B



SPECIFICATION SHEET : WH8-230-L

This Is An Original Product From Fulham Co., Inc

Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz								
LAMP WATTS/TYPE	F72T12	F84T12	F96T12 60W	F96T12 75W	-	-	-	-
LAMPS OPERATED	2							
WIRING DIAGRAM #	22							
INPUT WATTS	132	152	128	162				
LINE CURRENT	0.61	0.70	0.59	0.74				
POWER FACTOR	0.94	0.95	0.94	0.95				
BALLAST FACTOR	0.87	0.87	0.89	0.94				
EFFICACY FACTOR	0.66	0.57	0.69	0.58				
THD	32%	30%	32%	30%				
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993							
INPUT/PROTECTION	FUUSE							
OUTPUT/PROTECTION	-							
MIN. STARTING TEMP	- 18 °C (0 °F)							
MAX. CASE TEMP	70 °C (158 °F)							
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION							
ENERGY STAR 4.0	-							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR							

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F18T12HO	F24T12HO	F30T12HO	F36T12HO	F42T12HO	F48T12HO	F60T12HO	-	-
LAMPS OPERATED	3								
WIRING DIAGRAM #	26								
INPUT WATTS	69	90	109	120	147	164	194		
LINE CURRENT	0.32	0.42	0.50	0.55	0.68	0.75	0.89		
POWER FACTOR	0.94	0.94	0.94	0.94	0.94	0.95	0.95		
BALLAST FACTOR	0.76	0.79	0.83	0.82	0.87	0.88	0.90		
EFFICACY FACTOR	1.09	0.88	0.76	0.69	0.59	0.54	0.46		
THD	35%	34%	33%	33%	32%	31%	30%		
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

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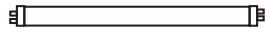
Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-10 rev B



SPECIFICATION SHEET : WH8-230-L
 This Is An Original Product From Fulham Co., Inc

Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



T12HO

ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz									
LAMP WATTS/TYPE	F18T12HO	F24T12HO	F30T12HO	F36T12HO	F42T12HO	F48T12HO	F60T12HO	F64T12HO	F72T12HO
LAMPS OPERATED	2								
WIRING DIAGRAM #	23								
INPUT WATTS	54	68	83	92	109	120	147	155	172
LINE CURRENT	0.25	0.32	0.39	0.43	0.51	0.56	0.68	0.71	0.79
POWER FACTOR	0.93	0.93	0.93	0.93	0.94	0.94	0.94	0.95	0.95
BALLAST FACTOR	0.80	0.82	0.91	0.91	0.94	0.96	1.00	0.94	1.00
EFFICACY FACTOR	1.47	1.21	1.09	0.99	0.86	0.80	0.68	0.61	0.58
THD	36%	35%	35%	34%	34%	33%	32%	32%	31%
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)								
SOUND RATING	" A "								
BALLAST TYPE	INSTANT START								
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993								
INPUT/PROTECTION	FUSE								
OUTPUT/PROTECTION	-								
MIN. STARTING TEMP	- 18 °C (0 °F)								
MAX. CASE TEMP	70 °C (158 °F)								
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION								
ENERGY STAR 4.0	-								
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR								

INPUT VOLT: 230V ± 10%, 50/60Hz						
LAMP WATTS/TYPE	F84T12HO	F96T12HO 95W	F96T12HO 110W	-	-	-
LAMPS OPERATED	2					
WIRING DIAGRAM #	23					
INPUT WATTS	203	184	218			
LINE CURRENT	0.93	0.85	1.00			
POWER FACTOR	0.95	0.95	0.95			
BALLAST FACTOR	1.02	0.93	1.26			
EFFICACY FACTOR	0.50	0.51	0.58			
THD	30%	31%	29%			
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)					
SOUND RATING	" A "					
BALLAST TYPE	INSTANT START					
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993					
INPUT/PROTECTION	FUSE					
OUTPUT/PROTECTION	-					
MIN. STARTING TEMP	- 18 °C (0 °F)					
MAX. CASE TEMP	70 °C (158 °F)					
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION					
ENERGY STAR 4.0	-					
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR					

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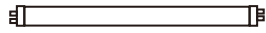
Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-11 rev B



SPECIFICATION SHEET : WH8-230-L
 This Is An Original Product From Fulham Co., Inc

Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.

This Ballast Will Operate Following Lamps.



T12VHO

ELECTRICAL DATA (FOR 230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz							
LAMP WATTS/TYPE	F48T12VHO	F60T12VHO	F72T12VHO	F96T12VHO	-	-	-
LAMPS OPERATED	1						
WIRING DIAGRAM #	19						
INPUT WATTS	114	134	148	200			
LINE CURRENT	0.53	0.62	0.68	0.91			
POWER FACTOR	0.94	0.94	0.94	0.95			
BALLAST FACTOR	0.94	0.93	0.89	0.92			
EFFICACY FACTOR	0.82	0.69	0.60	0.46			
THD	33%	32%	32%	30%			
EMI/RFI COMPLIANCE	FCC PART 18-A (NON-CONSUMER)						
SOUND RATING	" A "						
BALLAST TYPE	INSTANT START						
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993						
INPUT/PROTECTION	FUUSE						
OUTPUT/PROTECTION	-						
MIN. STARTING TEMP	- 18 °C (0 ° F)						
MAX. CASE TEMP	70 °C (158 ° F)						
TYPE "HL" APPROVAL	APPROVED FOR HAZARDOUS LOCATION						
ENERGY STAR 4.0	-						
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR						

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Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: www.fulham.com 2006-168-12 rev B